



BioSite **Histo**



Optibodies™

Nordic **BioSite**
- in Life Science Research

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Optibodies™

Optimal Antibodies for Optimal Research; Nordic BioSite Introduce Optibodies™

Nordic Biosite are delighted to present our range of top quality, carefully tested Optibodies™.

Our passion is being a partner in your research and clinical diagnostics. Standing By Your Side™ to support all your research and diagnostic needs.

What are Nordic BioSite Optibodies?

Our team of dedicated scientists has been working to optimize a range of antibodies for markers which are clinically and diagnostically important. Research frequently necessitates a range of antibodies tailored to the specific needs of each individual project. As such, there is no one specific protocol for IHC that can be used regularly. In clinical perspective, antibodies must be specific with high affinity towards their epitopes, flexible to use, good LOT consistency and reliable. Our Optibody antibodies are carefully optimized and fine-tuned with the needs of today's research and clinical IHC laboratory. Optibodies™ are optimized using NordiQC recommendations of control tissues and criteria.

Antibody optimization refers to a range of tests that an antibody can go through in order to find its optimal staining conditions. Each antigen has a preferred method of antigen retrieval such as Heat Induced Epitope Retrieval (HIER) using acidic Citrate or TRIS-EDTA base buffers, as well as an enzymatic retrieval process. However the majority of antigens need an alkaline pre-treatment method for optimal staining pattern. Each antibody has an optimal concentration when it can be used, depending upon the affinity of paratope and epitope as well as expression level of the antigen. Antibodies optimized with tissues that express high levels of antigen expression may prove inadequate when staining tissues with low antigen expression. It is thus necessary to optimize an antibody for a variety of tissue types to show applicability of Optibody.



PRODUCT LIST

Optibody	Catalogy No.	Clone	Source
AMACR	BSH-7136	BS2	mouse monoclonal antibody
Androgen receptor	BSH-7360	BS46	mouse monoclonal antibody
BCL2	BSH-2001	BS94	mouse monoclonal antibody
BCL6	BSH-2011	BS19	mouse monoclonal antibody
CD3e	BSH-3000	BSR10	rabbit monoclonal antibody
CD3z/CD247	BSH-7370	BS103	mouse monoclonal antibody
CD7	BSH-2004	BS8	mouse monoclonal antibody
CD7	BSH-3002	BSR9	rabbit monoclonal antibody
CD10	BSH-7021	BS1	mouse monoclonal antibody
CD105/Endoglin	BSH-7631	BS71	mouse monoclonal antibody
CD14	BSH-7019	BS9	mouse monoclonal antibody
CD20	BSH-2006	BS6	mouse monoclonal antibody
CD22	BSH-2009	BS100	mouse monoclonal antibody
CD23	BSH-3004	BS20	mouse monoclonal antibody
CD23	BSH-2005	BS99	mouse monoclonal antibody
CD31	BSH-7112	BS50	mouse monoclonal antibody
CD34	BSH-2008	BS72	mouse monoclonal antibody
CD38	BSH-7347	BS3	mouse monoclonal antibody
CD68	BSH-2007	BS79	mouse monoclonal antibody
CEA	BSH-7437	BS33	mouse monoclonal antibody
Cytokeratin PAN	BSH-7124	BS5	mouse monoclonal antibody
CK17	BSH-7311	BS55	mouse monoclonal antibody
CK18	BSH-7235	BS83	mouse monoclonal antibody
CK19	BSH-7240	BS23	mouse monoclonal antibody
CK20	BSH-2000	BS101	mouse monoclonal antibody
CK5	BSH-7123	BS42	mouse monoclonal antibody
Desmin	BSH-7082	BS21	mouse monoclonal antibody
E-CAD	BSH-7516	BS38	mouse monoclonal antibody
Epcam	BSH-7402	BS14	mouse monoclonal antibody
Glucagon	BSH-7443	BS71	mouse monoclonal antibody
HER2	BSH-7182	BS24	mouse monoclonal antibody
Insulin	BSH-2010	BS22	mouse monoclonal antibody
Ki-67	BSH-7302	BS4	mouse monoclonal antibody
L1CAM	BSH-3005	BSR3	rabbit monoclonal antibody
Mammaglobin	BSH-7589	BS17	mouse monoclonal antibody
MBP	BSH-7697	BS188	mouse monoclonal antibody
MCM2	BSH-7698	BS18	mouse monoclonal antibody
Melan A	BSH-2003	BS52	mouse monoclonal antibody
MLH1	BSH-7208	BS29	mouse monoclonal antibody
Napsin A	BSH-2002	BS10	mouse monoclonal antibody
P53	BSH-7287	BS12	mouse monoclonal antibody
p63	BSH-7449	BS63	mouse monoclonal antibody
P63	BSH-3006	BSR6	rabbit monoclonal antibody
PAX5	BSH-7833	BS11	mouse monoclonal antibody
PD-1	BSH-3001	BSR1	rabbit monoclonal antibody
SMA	BSH-7459	BS66	mouse monoclonal antibody
Somatostatin	BSH-7849	BS16	mouse monoclonal antibody
SOX10	BSH-7959	BS7	mouse monoclonal antibody
Synaptophysin	BSH-7385	BS15	mouse monoclonal antibody
Vimentin	BSH-7100	BS13	mouse monoclonal antibody

Bulk quotations/sample requests available

Always check our website for the latest and most updated Optibodies™: www.nordicbiosite.com

AMACR

Cat#: BSH-7136-100 100ul, BSH-7136-1 1ml

Clonality: Mouse monoclonal antibody

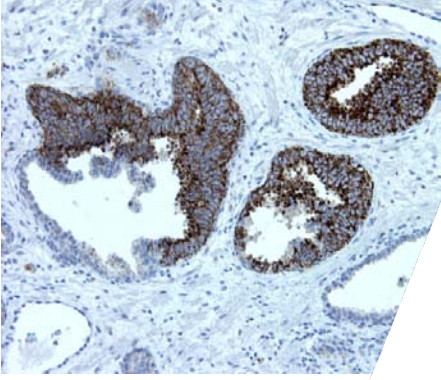
Clone: BS2

Application: IHC-P

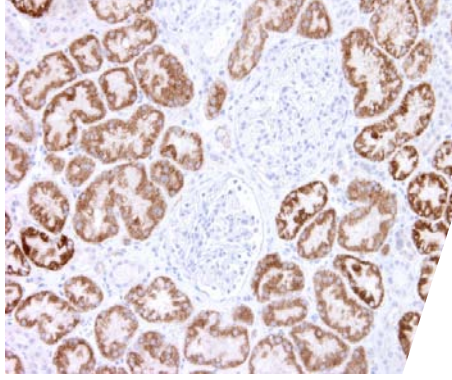
S/R: Human, rabbit, rat, mouse

Control tissues: Kidney, PIN, Prostate adenocarcinoma

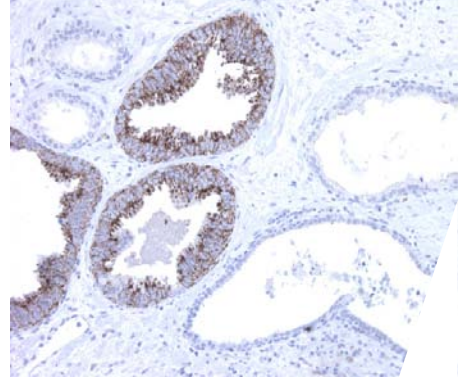
AMACR (alpha-methylacyl-CoA racemase) is prostate cancer-specific gene that encodes a protein involved in the beta-oxidation of branched chain fatty acids. Expression of AMACR protein is found in prostatic adenocarcinoma, but not in benign prostatic tissue. It stains premalignant lesions of prostate: high-grade prostatic intraepithelial neoplasia (PIN) and a typical adenomatous hyperplasia. AMACR can be used as a positive marker for PIN.



AMACR - Prostate PIN
Prostate section has been stained using AMACR antibody (BS2) with 1:200 dilution. Neoplastic cells have strong granular staining.



AMACR - Kidney
Kidney section has been stained using AMACR antibody (BS2) with 1:200 dilution. Tubulus cells in proximal tubules have strong granular staining.



AMACR - Prostate PIN
Prostate section has been stained using AMACR antibody (BS2) with 1:200 dilution. Neoplastic cells have strong granular staining. Note glands without neoplastic cells.

Androgen Receptor

Cat#: BSH-7360-100 100ul, BSH-7360-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS46

Application: IHC-P

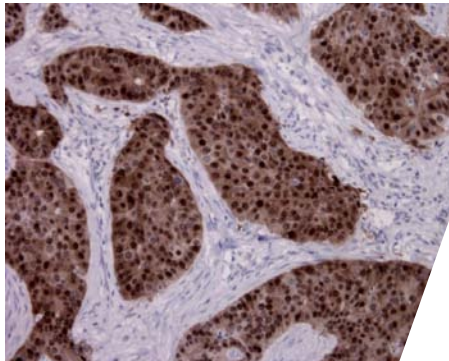
S/R: Human

Control tissue: Prostate

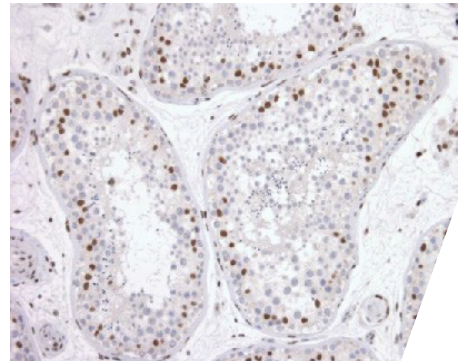
The androgen receptor (AR), also known as NR3C4 (nuclear receptor subfamily 3, group C, member 4), is a type of nuclear receptor which is activated by binding of either of the androgenic hormones testosterone or dihydrotestosterone in the cytoplasm and then translocating into the nucleus. The androgen receptor is most closely related to the progesterone receptor. The main function of the androgen receptor is as a DNA binding transcription factor which regulates gene expression.



AR - Prostate
Prostate section has been stained using AR antibody (BS46) with 1:200 dilution. Epithelial cells of prostate glands have strong nuclear staining.



AR - Ductal breast carcinoma
Breast carcinoma section has been stained using AR antibody (BS46) with 1:200 dilution. Carcinoma cells have strong nuclear and cytoplasmic staining.



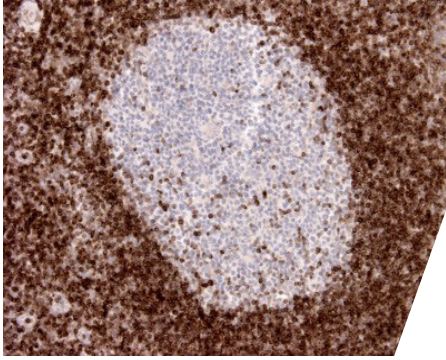
AR - Testicle
Testicle section has been stained using AR antibody (BS46) with 1:200 dilution. Leydig cells and Sertoli cells have strong to moderate nuclear staining.

BCL2

Cat#: BSH-2001-100 100ul, BSH-2001-1 1ml
Clonality: Mouse monoclonal antibody
Clone: BS94
Application: IHC-P
S/R: Human
Control tissues: Tonsil, appendix

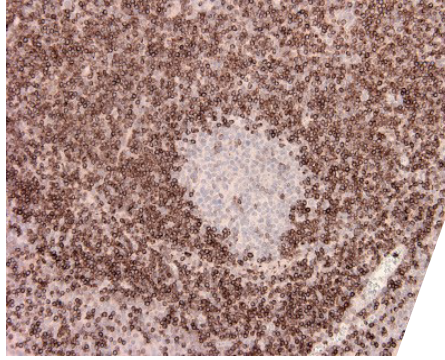


B-cell lymphoma/leukaemia-2 (Bcl-2) is an inhibitor of apoptosis, and its expression is generally abundant in cells which dividing and differentiating. In lymphatic tissue, Bcl-2 is highly expressed in T cells, maturing B cells as well as mature B cells. However, expression level in germinal center B cells is downregulated. Overexpression of the Bcl-2 is common in leukemia and various carcinomas and sarcomas. Over expression is common especially in non-Hodgkins lymphoma. Bcl-2 is helpful to classification of the follicular lymphoma or other lymphomas.



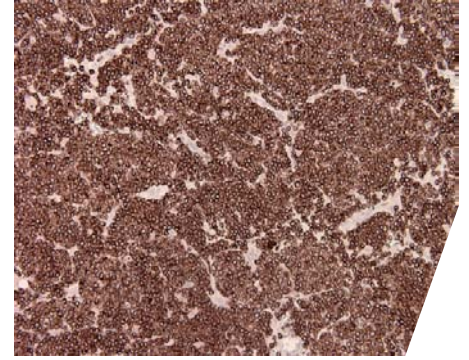
BCL2 - Tonsil

Tonsil section has been stained using BCL2 antibody (BS94) with 1:200 dilution. All peripheral lymphocytes should be labelled and the most of the germinal center B cells should be negatively stained from tonsil sections.



BCL2 - Lymph node (CLL)

Lymph node section has been stained using BCL2 antibody (BS94) with 1:200 dilution. Leukemia cells stained strongly with cytoplasmic staining pattern.



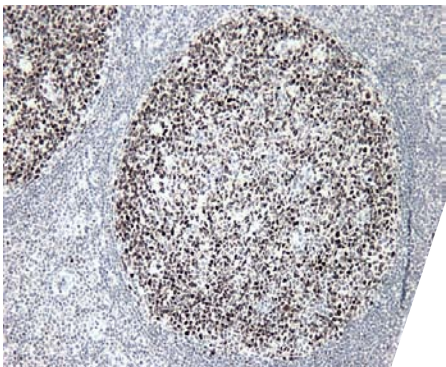
BCL2 - Mantle cell lymphoma

Lymph node section has been stained using BCL2 antibody (BS94) with 1:200 dilution. Mantle cell lymphoma cells stained strongly.

BCL6

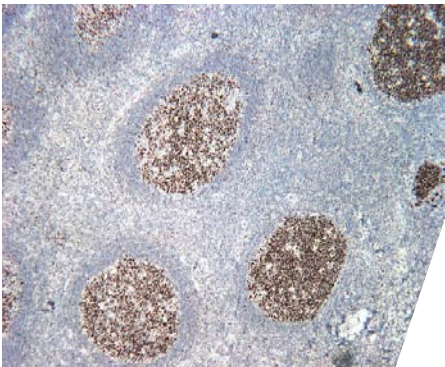
Cat#: BSH-2011-100 100ul, BSH-2011-1 1 ml
Clonality: Mouse monoclonal antibody
Clone: BS19
Application: IHC-P
S/R: Human
Control tissues: Tonsil, appendix

The BCL6 protein is a nuclear zinc finger transcription factor with a N-terminal POZ domain. BCL6 protein is a transcriptional repressor and is necessary for germinal center formation. BCL6 protein is sequence-specific repressor of transcription and in germinal centers it inhibits differentiation of germinal center B cells to plasma cells. In lymphatic tissues, BCL6 is expressed mostly in germinal center B cells in dark and light zones of germinal centers. BCL6 is useful especially for germinal center neoplasms including eg. follicular lymphoma, DLBCL, Burkitt lymphoma and lymphocyte predominant Hodgkin's lymphoma as well.



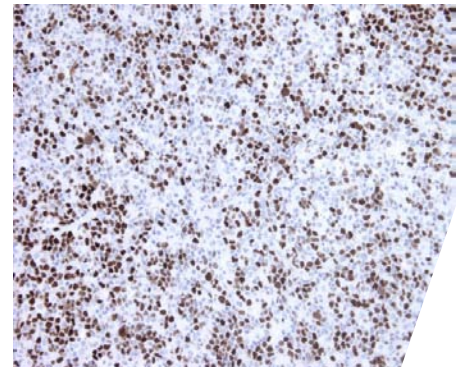
BCL6 - Tonsil

Tonsil section has been stained using BCL6 antibody (BS19) with 1:200 dilution. Interfollicular B cells stained strongly with nuclear staining pattern.



BCL6 - Tonsil

Tonsil section has been stained using BCL6 antibody (BS19) with 1:200 dilution. Interfollicular B cells stained strongly with nuclear staining pattern.



BCL6 - DLBCL

DLBCL section has been stained using BCL6 antibody (BS19) with 1:200 dilution. Lymphoma cells stained strongly with nuclear staining pattern.

CD3e

Cat#: BSH-3000-100 100ul, BSH-3000-1 1 ml

Clonality: Rabbit monoclonal antibody

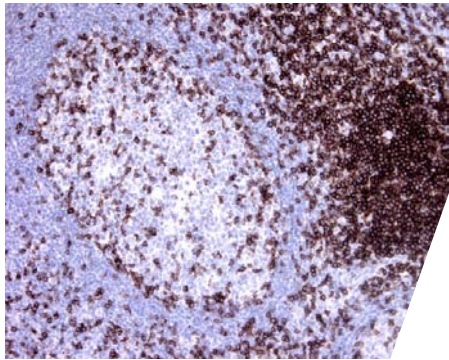
Clone: BSR10

Application: IHC-P, IHC-Fro

S/R: Human (Others not tested)

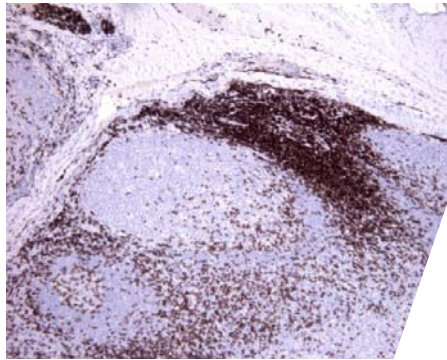
Control tissues: Tonsil, appendix

The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. CD3e is an important pan T-cell marker for the classification of malignant lymphomas and lymphoid leukaemias.



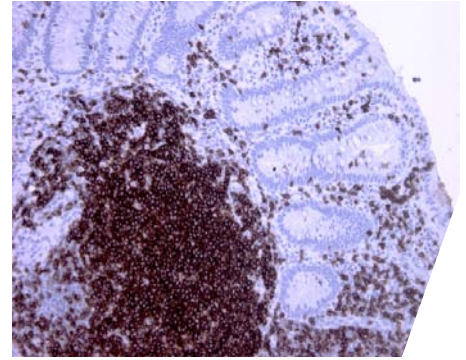
CD3e - Tonsil

Tonsil section has been stained using CD3 antibody (BSR10) with 1:200 dilution. All T cells should be labelled and scattered T cells should be stained from germinal center without staining in B cells.



CD3e - Tonsil

Tonsil section has been stained using CD3 antibody (BSR10) with 1:200 dilution. All T cells have strongly membranous staining pattern.



CD3e - Appendix

Appendix section has been stained using CD3 antibody (BSR10) with 1:200 dilution. T cells and intraepithelial T cells stained strongly.

CD3z/CD247

Cat#: BSH-7370-100 100ul, BSH-7370-1 1ml

Clonality: Mouse monoclonal antibody

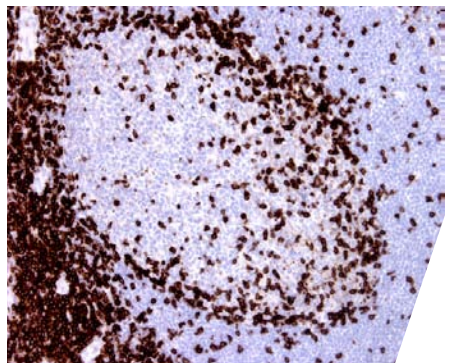
Clone: BS103

Application: IHC-P

S/R: Human, rabbit, rat, mouse, pig

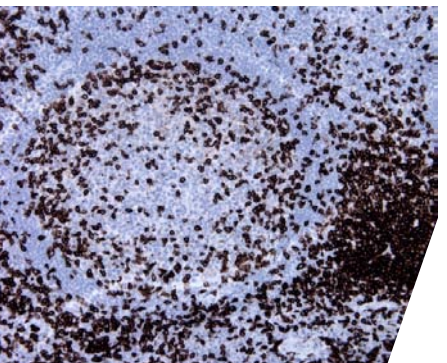
Control tissues: Tonsil, appendix

The protein encoded by this gene is T-cell receptor zeta, which together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon, forms the T-cell receptor-CD3 complex. The zeta chain plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.



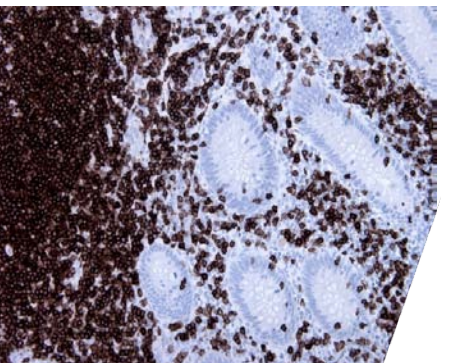
CD3z - Tonsil

Tonsil section has been stained using CD3 antibody (BS103) with 1:300 dilution. All T cells should be labelled and scattered T cells should be stained from germinal center.



CD3z - Tonsil

Tonsil section has been stained using CD3 antibody (BS103) with 1:300 dilution. All T cells should be labelled and scattered T cells should be stained from germinal center.



CD3z - Appendix

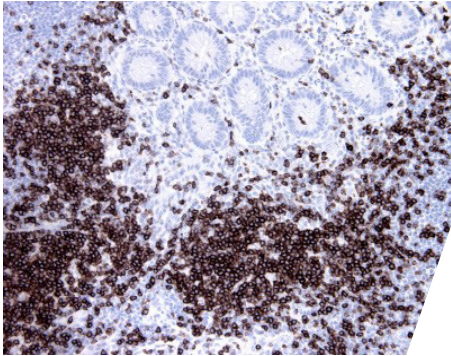
Appendix section has been stained using CD3 antibody (BS103) with 1:300 dilution. T cells and intraepithelial T cells stained strongly.

CD7

Cat#: BSH-2004-100 100ul, BSH-2004-1 1ml
Clonality: Mouse monoclonal antibody
Clone: BS8
Application: IHC-P
S/R: Human
Control tissues: Tonsil, appendix

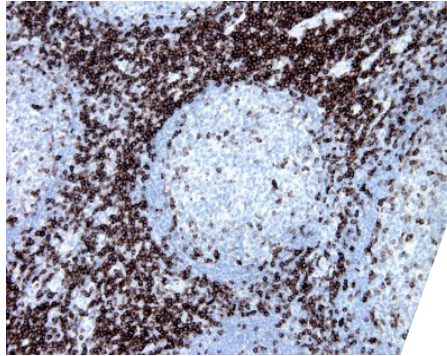


CD7 transmembrane protein is a member of the immunoglobulin superfamily. This protein is found on thymocytes, mature T cells and NK cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.



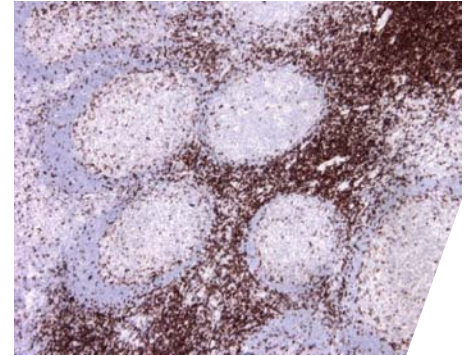
CD7 - Appendix

Appendix section has been stained using CD7 antibody (Clone: BS8) with 1:250 dilution. CD7 positive T cells have strong membranous label.



CD7 - Tonsil

Tonsil section has been stained using CD7 antibody (Clone: BS8) with 1:250 dilution. CD7 positive T cells have strong membranous label.



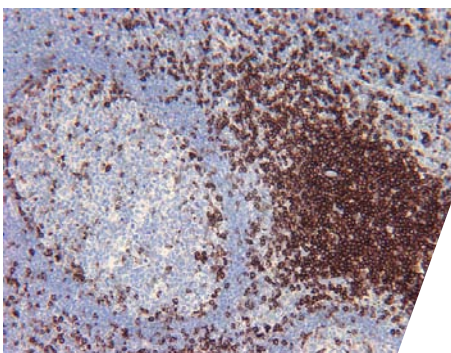
CD7 - Tonsil

Tonsil section has been stained using CD7 antibody (Clone: BS8) with 1:250 dilution. CD7 positive T cells have strong membranous label.

CD7

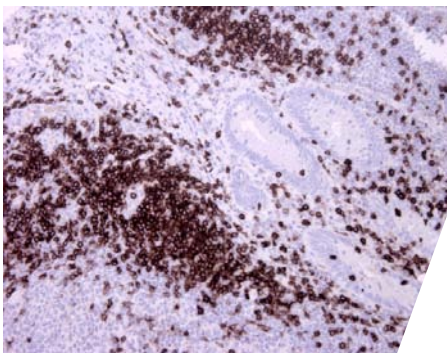
Cat#: BSH-3002-100 100ul, BSH-3002-1 1ml
Clonality: Rabbit monoclonal antibody
Clone: BSR9
Application: IHC-P
S/R: Human
Control tissues: Tonsil, appendix

CD7 transmembrane protein is a member of the immunoglobulin superfamily. This protein is found on thymocytes, mature T cells and NK cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.



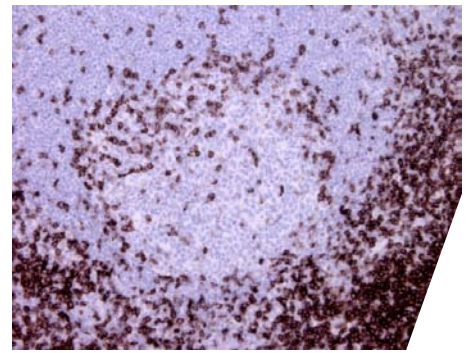
CD7 - Tonsil

Tonsil section has been stained using CD7 antibody (Clone: BSR9) with 1:250 dilution. CD7 positive T cells have strong membranous label.



CD7 - Appendix

Appendix section has been stained using CD7 antibody (Clone: BSR9) with 1:250 dilution. CD7 positive T cells and intraepithelial T cells have strong membranous label.



CD7 - Tonsil

Tonsil section has been stained using CD7 antibody (Clone: BSR9) with 1:250 dilution. CD7 positive T cells have strong membranous label.

CD10

Cat#: BSH-7021-100 100ul, BSH-7021-1 1ml

Clonality: Mouse monoclonal antibody

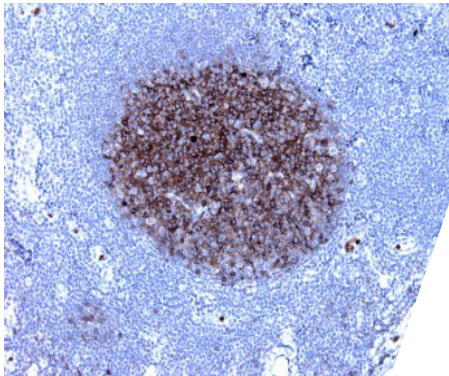
Clone: BS1

Application: IHC-P

S/R: Human, rabbit, mouse, pig, sheep

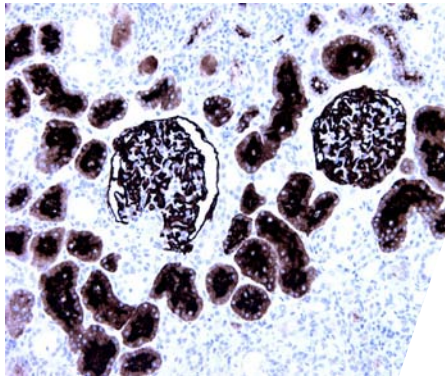
Control tissues: Tonsil, liver and kidney

CD10 is a 100kDa glycoprotein, also designated Common Acute Lymphocytic Leukemia Antigen (CALLA). It is a cell surface enzyme with neutral metalloendopeptidase activity which inactivates a variety of biologically active peptides. CD10 is expressed on the cells of lymphoblastic, Burkitt's, and follicular germinal center lymphomas, and on cells from patients with chronic myelocytic leukemia (CML). It is also expressed on the surface of normal early lymphoid progenitor cells, immature B cells within adult bone marrow and germinal center B cells within lymphoid tissue. CD10 is also present on breast myoepithelial cells, bile canaliculi, fibroblasts, with especially high expression on the brush border of kidney and gut epithelial cells. CD10 is useful especially in the classification of B-cell leukemias and lymphomas.



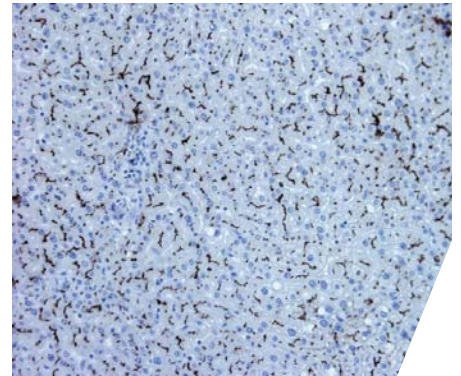
CD10 - Tonsil

Tonsil section have been stained using CD10 optibody (Clone: BS1) with 1:300 dilution. Follicular B cells have moderate to strong membranous staining pattern.



CD10 - Kidney

Kidney section have been stained using CD10 optibody (Clone: BS1) with 1:300 dilution. Proximal tubules and glomerulus have strong staining.



CD10 - Liver

Liver section have been stained using CD10 optibody (Clone: BS1) with 1:300 dilution. Bile canaliculi have strong label without staining in hepatocytes.

CD14

Cat#: BSH-7019-100 100ul, BSH-7019-1 1ml

Clonality: Mouse monoclonal antibody

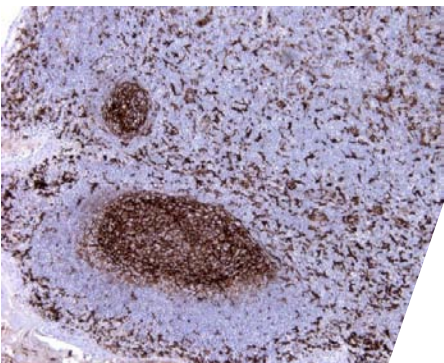
Clone: BS9

Application: IHC-P

S/R: Human

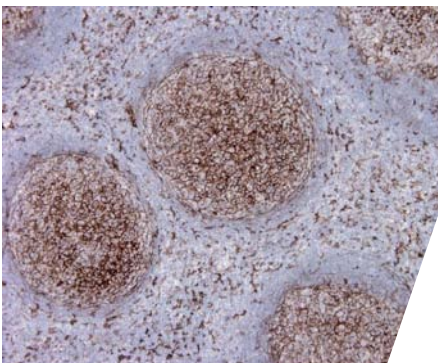
Control tissues: Tonsil, liver and appendix

CD14 antigen is a GPI-linked glycoprotein with a molecular weight of 55kD. The CD14 antigen is expressed on cells of the myelomonocytic lineage including monocytes, macrophages, follicular dendritic cells and Langerhans cells. Low expression is observed on neutrophils and on human B cells. CD14 antigen is a receptor for bacterial lipopolysaccharide (LPS, endotoxin) and the lipopolysaccharide binding protein (LBP). LBP and CD14 antigen serves two physiological roles. These proteins act as opsonin and opsonin receptor, respectively, to promote the phagocytic uptake of bacteria or LPS coated particles by macrophages.



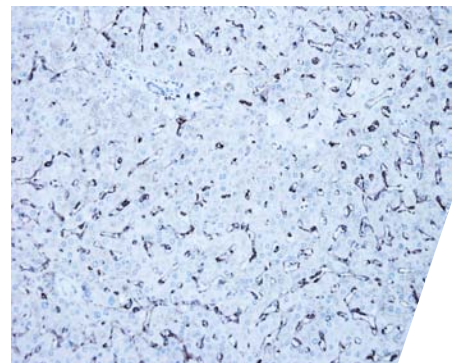
CD14 - Tonsil

Tonsil section have been stained using CD14 optibody (Clone: BS9) with 1:200 dilution. Follicular dendritic cells have strong label as well as macrophages in perifollicular area.



CD14 - Tonsil

Tonsil section have been stained using CD14 optibody (Clone: BS9) with 1:200 dilution. Follicular dendritic cells have strong label as well as macrophages in perifollicular area.



CD14 - Liver

Liver section has been stained using CD14 optibody (Clone: BS9) with 1:200 dilution. Kupffer cells have strong to moderate label.

CD20

Cat#: BSH-2006-100 100ul, BSH-2006-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS6

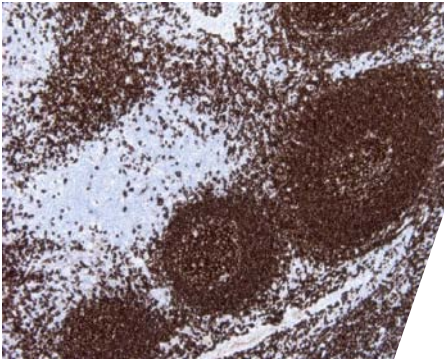
Application: IHC-P

S/R: Human

Control tissues: Tonsil and appendix

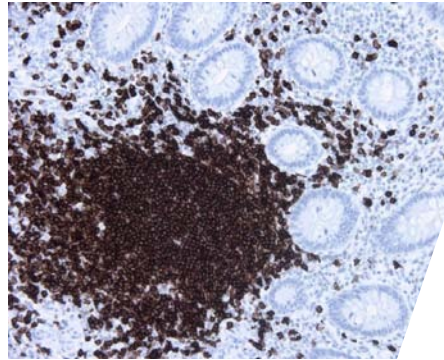


The CD20 antigen is present on human pre B-lymphocytes and on B-lymphocytes at all stages of maturation, except on plasma cells. Low level expression of the CD20 antigen has been detected on subpopulation of T-lymphocytes. CD20 is expressed widely in the large majority of cases of B-cell leukemia and lymphoma. The CD20 molecule is involved in regulation of B-cell differentiation, presumably via its reported function as a Ca⁺⁺ channel subunit. Together with CD79a, CD20 is one of the most important markers for the identification and classification of B-cell neoplasms.



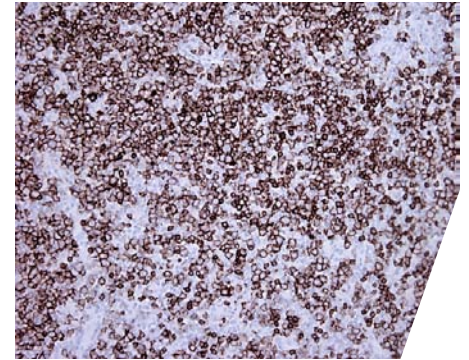
CD20 - Tonsil

Tonsil section has been stained using CD20 antibody (Clone: BS6) with 1:250 dilution. B cells have strong membranous label. Mantle zone B cells and follicular B cells have strongly stained with membranous staining pattern.



CD20 - Appendix

Appendix section has been stained using CD20 antibody (Clone: BS6) with 1:250 dilution. B cells have strong membranous label.



CD20 - DLBCL

Lymph node tissue with DLBCL has been stained using CD20 antibody (Clone: BS6) with 1:250 dilution. Neoplastic cells have strong membranous label.

CD22

Cat#: BSH-2009-100 100ul, BSH-2009-1 1ml

Clonality: Mouse monoclonal antibody

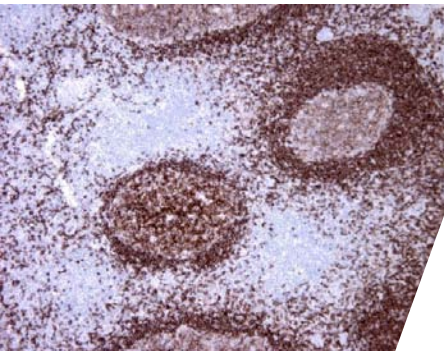
Clone: BS100

Application: IHC-P

S/R: Human

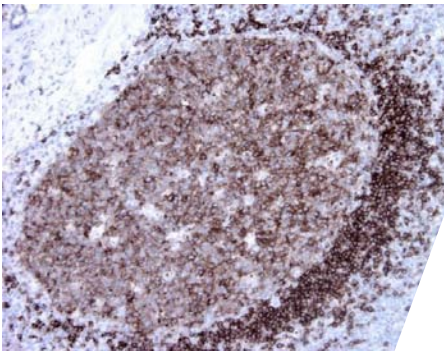
Control tissues: Tonsil and appendix

CD22 protein may be involved in the localization of B cells in lymphoid tissues. CD22 is expressed in the cytoplasm and cell membrane of B cells. CD22 is especially useful in diagnostics of hairy cell leukemia and classification of the B-cell lymphomas.



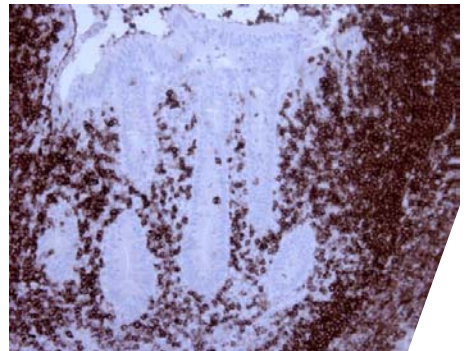
CD22 - Tonsil

Tonsil section have been stained using CD22 antibody (Clone: BS100) with 1:200 dilution. Mantle zone B cells have strong membranous label and maturing B cells in germinal center have moderate cytoplasmic and membranous label.



CD22 - Tonsil

Tonsil section has been stained using CD22 antibody (Clone: BS100) with 1:200 dilution. Mantle zone B cells have strong membranous label.



CD22 - Appendix

Appendix section have been stained using CD22 antibody (Clone: BS100) with 1:200 dilution. B cells have strong membranous label.

CD23

Cat#: BSH-2005-100 100ul, BSH-2005-1 1ml

Clonality: Mouse monoclonal antibody

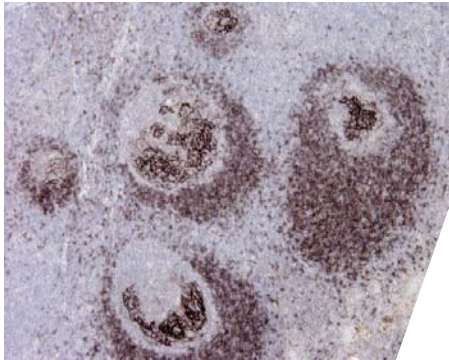
Clone: BS99

Application: IHC-P

S/R: Human

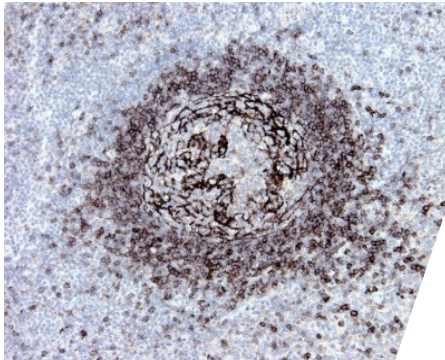
Control tissues: Tonsil and appendix

The human leukocyte differentiation antigen CD23 (FCER2) is a key molecule for B-cell activation and growth. It is expressed on most mature B cells and can also be found on the surface of T cells, macrophages, platelets and EBV transformed B-lymphoblasts. Expression of CD23 has been detected in neoplastic cells from cases of B-cell chronic lymphocytic leukemia. CD23 is expressed by B cells in the follicular mantle zone B cells and follicular dendritic cells. CD23 is distinct from the high affinity IgE receptors found on basophils and mast cells, which mediate allergic reactions.



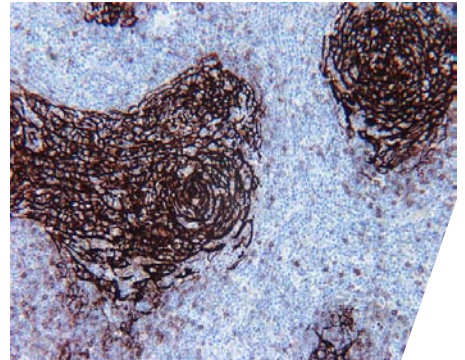
CD23 - Tonsil

Tonsil section have been stained using CD23 optibody (Clone: BS99) with 1:200 dilution. B cells of mantle zone have strong or moderate membranous label and follicular dendritic cells stained strongly.



CD23 - Tonsil

Tonsil section have been stained using CD23 optibody (Clone: BS99) with 1:200 dilution. B cells of mantle zone have strong or moderate membranous label and follicular dendritic cells stained strongly.



CD23 - Follicular lymphoma

Follicular lymphoma section have been stained using CD23 optibody (Clone: BS99) with 1:200 dilution.

CD23

Cat#: BSH-3004-100 100ul, BSH-3004-1 1ml

Clonality: Mouse monoclonal antibody

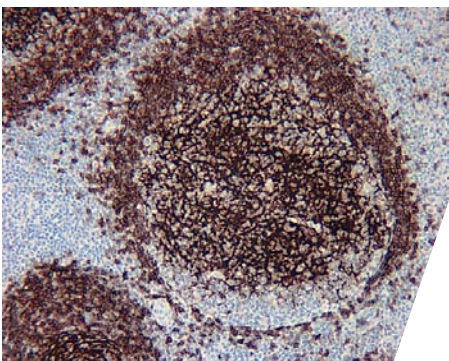
Clone: BS20

Application: IHC-P

S/R: Human

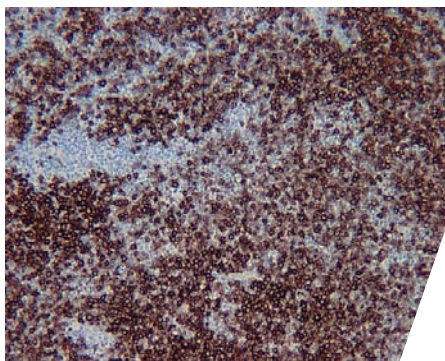
Control tissues: Tonsil and appendix

The human leukocyte differentiation antigen CD23 (FCER2) is a key molecule for B-cell activation and growth. It is expressed on most mature B cells and can also be found on the surface of T cells, macrophages, platelets and EBV transformed B-lymphoblasts. Expression of CD23 has been detected in neoplastic cells from cases of B-cell chronic lymphocytic leukemia. CD23 is expressed by B cells in the follicular mantle zone B cells and follicular dendritic cells. CD23 is distinct from the high affinity IgE receptors found on basophils and mast cells, which mediate allergic reactions.



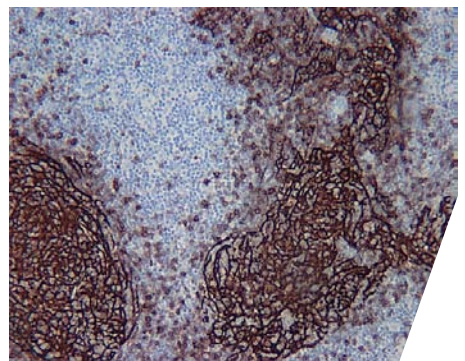
CD23 - Tonsil

Tonsil section have been stained using CD23 optibody (Clone: BS20) with 1:200 dilution. B cells of mantle zone have strong or moderate membranous label and follicular dendritic cells stained strongly.



CD23 - B-cell CLL

Tumor section have been stained using CD23 optibody (Clone: BS20) with 1:200 dilution. Neoplastic cells have strong to moderate label.



CD23 - Follicular lymphoma

Follicular lymphoma section have been stained using CD23 optibody (Clone: BS20) with 1:200 dilution. Dendritic cells have strong label.

CD31

Cat#: BSH-7112-100 100ul, BSH-7112-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS50

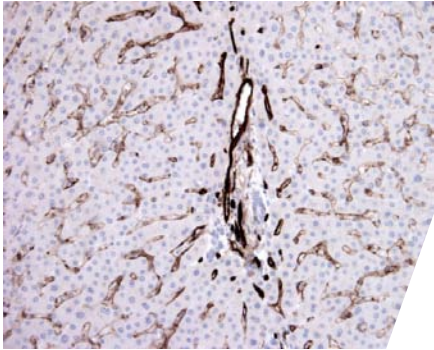
Application: IHC-P

S/R: Human

Control tissues: Tonsil and liver

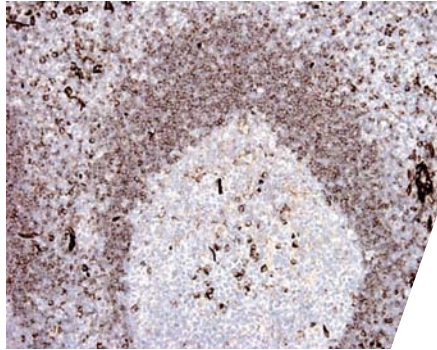


CD31, also known as platelet endothelial cell adhesion molecule 1 (PECAM1), is a type I integral membrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed on the surface of endothelial cells, and concentrated at the junction between them. The antibody reacts with the murine form of the Platelet-Endothelial Cell Adhesion Molecule. The reactivity of the antibody is restricted to the isoform of the molecule that is electively expressed by endothelial cells. The antigen is predominantly present at the lateral borders of endothelial cells as described for human PECAM-1. It is also weakly expressed on many peripheral lymphoid cells and platelets. CD31 has been used to measure angiogenesis in association with tumor recurrence.



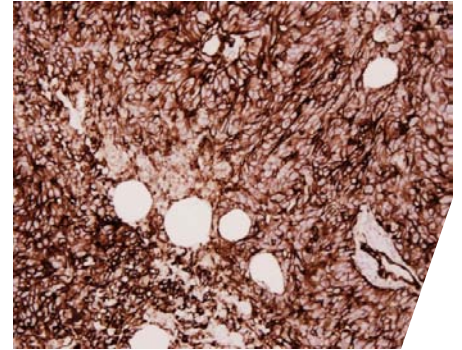
CD31 - Liver

Liver section has been stained using CD31 optibody (Clone: BS50) with 1:200 dilution. Sinusoids of liver have been stained moderate and portal veins.



CD31 - Tonsil

Tonsil section has been stained using CD31 optibody (Clone: BS50) with 1:200 dilution. Mantle zone lymphocytes have moderate label.



CD31 - Angiosarcoma

Angiosarcoma section has been stained using CD31 optibody (Clone: BS50) with 1:200 dilution. Neoplastic cells have strong label.

CD34

Cat#: BSH-2008-100 100ul, BSH-2008-1 1ml

Clonality: Mouse monoclonal antibody

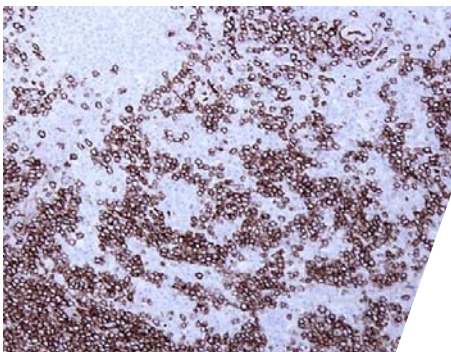
Clone: BS72

Application: IHC-P

S/R: Human

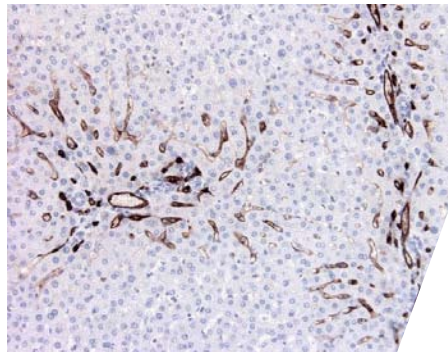
Control tissues: Tonsil, liver and appendix

CD34 is a transmembrane glycoprotein with a molecular mass of approximately 110 kD that is selectively expressed on human hematopoietic progenitor cells, endothelial cells and some fibroblasts. It could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. CD34 is highly expressed on hematopoietic progenitors, as well as on endothelial cells. CD34 has been used to measure angiogenesis, which reportedly predicts tumor recurrence.



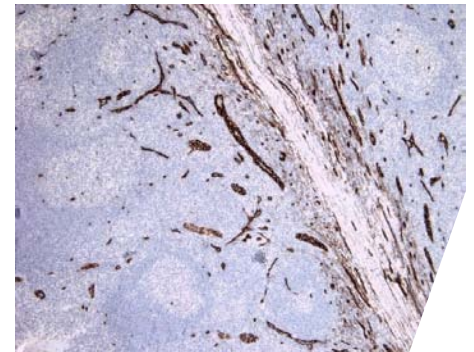
CD34 - Acute lymphoblastic leukaemia

Spleen section has been stained using CD34 been stained with strong intensity. Optibody (Clone: BS72) with 1:200 dilution. Neoplastic cells have a strong label.



CD34 - Liver

Liver section has been stained using CD34 optibody (Clone: BS72) with 1:200 dilution. Sinusoids of liver have been stained moderate in near of the portal veins. Portal veins stained with strong intensity.



CD34 - Tonsil

Tonsil section has been stained using CD34 optibody (Clone: BS72) with 1:200 dilution. Vascular endothelia have been stained strongly.

CD38

Cat#: BSH-7347-100 100ul, BSH-7347-1 1ml

Clonality: Mouse monoclonal antibody

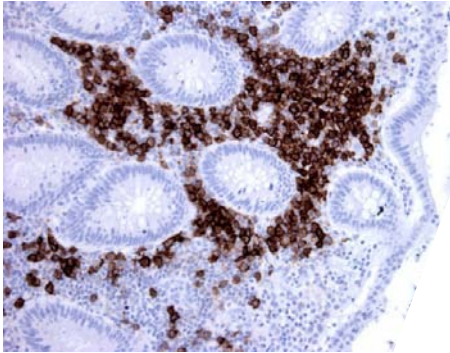
Clone: BS3

Application: IHC-P

S/R: Human

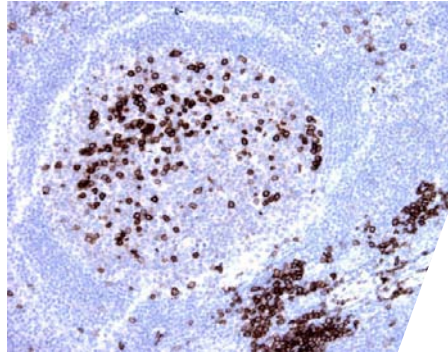
Control tissues: Tonsil and appendix

CD38 is a type II integral membrane glycoprotein which is present on early B- and T-cell lineages and activated B and T cells but is absent from most mature resting peripheral lymphocytes. CD38 is also found on thymocytes, pre-B cells, germinal center B cells, mitogen-activated T cells, monocytes and Ig-secreting plasma cells. CD38 acts as a NAD glycohydrolase in T lymphocytes. On hematopoietic cells CD38 induces activation, proliferation, and differentiation of mature T and B cells and mediates apoptosis of myeloid and lymphoid progenitor cells. CD38 also plays a role in maintaining survival of an invariant NK T (iNKT) cell subset that preferentially contributes to the maintenance of immunological tolerance.



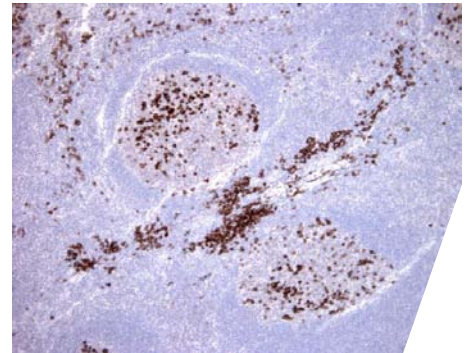
CD38 - Appendix

Appendix section has been stained using CD38 antibody (Clone: BS3) with 1:200 dilution. Strong membranous staining observed from plasma cells.



CD38 - Tonsil

Tonsil section has been stained using CD38 antibody (Clone: BS3) with 1:200 dilution. Strong membranous staining observed from scattered B cells in germinal center and plasma cells.



CD38 - Tonsil

Tonsil section has been stained using CD38 antibody (Clone: BS3) with 1:200 dilution. Strong membranous staining observed from scattered B cells in germinal center and plasma cells.

CD68

Cat#: BSH-2007-100 100ul, BSH-2007-1 1ml

Clonality: Mouse monoclonal antibody

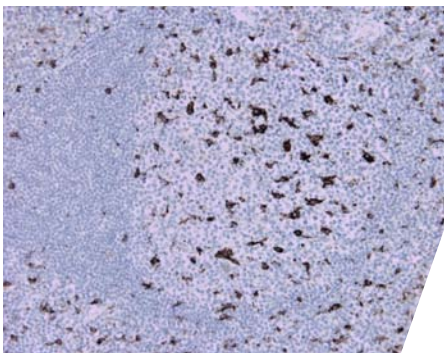
Clone: BS79

Application: IHC-P

S/R: Human

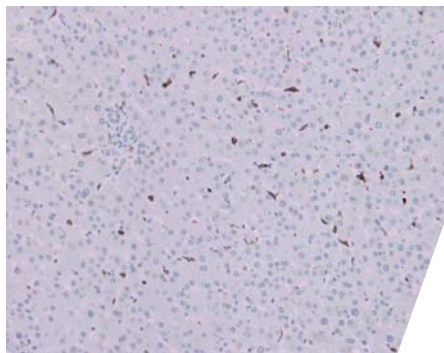
Control tissues: Tonsil and liver

This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms.



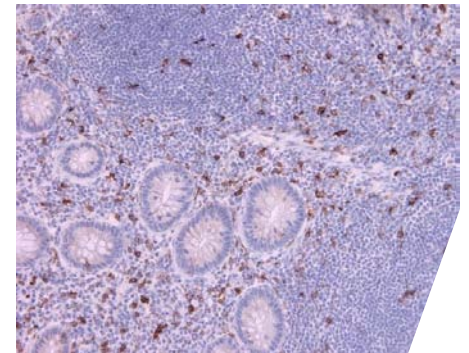
CD68 - Tonsil

Tonsil section has been stained using CD68 antibody (Clone: BS79) with 1:200 dilution. Macrophages have a strong label.



CD68 - Liver

Liver section has been stained using CD68 antibody (Clone: BS79) with 1:200 dilution. Kupffer cells have a strong label.



CD68 - Appendix

Appendix section has been stained using CD68 antibody (Clone: BS79) with 1:200 dilution. Scattered macrophages have a strong label.

CD105/Endoglin

Cat#: BSH-7631-100 100ul, BSH-7631-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS71

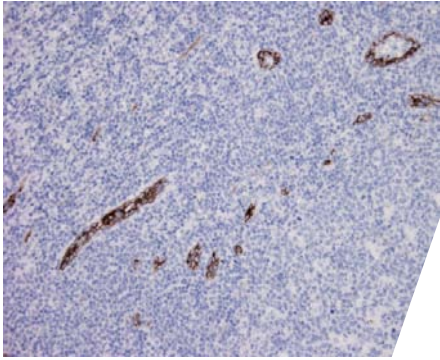
Application: IHC-P

S/R: Human

Control tissues: Tonsil and appendix

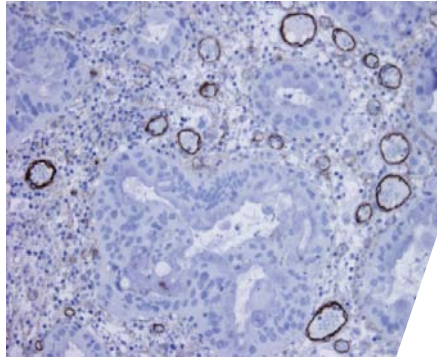


This gene encodes a homodimeric transmembrane protein which is a major glycoprotein of the vascular endothelium. This protein is a component of the transforming growth factor beta receptor complex and it binds TGFB1 and TGFB3 with high affinity. Mutations in this gene cause hereditary hemorrhagic telangiectasia, also known as Osler-Rendu-Weber syndrome 1, an autosomal dominant multisystemic vascular dysplasia. Endoglin is highly expressed especially in vascular tumor endothelia.



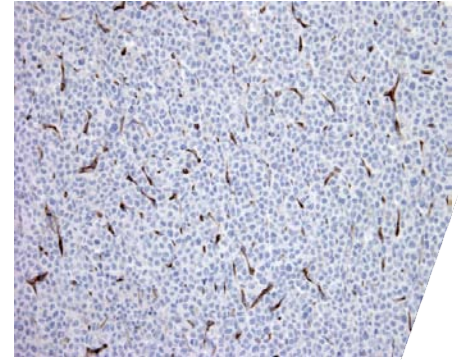
Endoglin - Tonsil

Tonsil section has been stained using endoglin antibody (Clone: BS71) with 1:200 dilution. Endoglin stains vascular endothelia with moderate to strong intensity.



Endoglin - Urinary bladder carcinoma

Tonsil section has been stained using endoglin antibody (Clone: BS71) with 1:200 dilution. Endoglin stains vascular endothelia with moderate to strong intensity.



Endoglin - Ductal breast adenocarcinoma

Ductal breast adenocarcinoma section has been stained with endoglin antibody (Clone: BS71) with 1:200 dilution. Vascular endothelia are strongly stained in intra-tumoral area.

CEA

Cat#: BSH-7437-100 100ul, BSH-7437-1 1ml

Clonality: Mouse monoclonal antibody

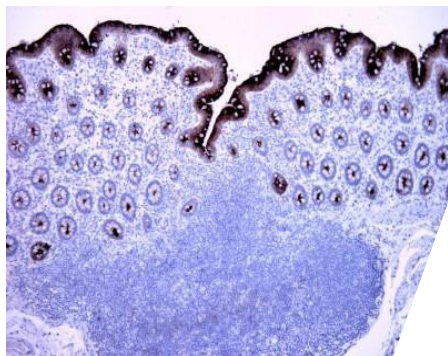
Clone: BS33

Application: IHC-P

S/R: Human

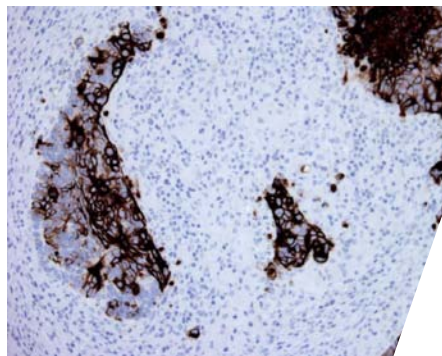
Control tissues: Appendix, colon and liver (negative)

CEA are useful in identifying the origin of various metastatic adenocarcinomas and in distinguishing pulmonary adenocarcinomas (60 to 70% are CEA+) from pleural mesotheliomas (rarely or weakly CEA+). The carcinoembryonic antigen (CEA) is a member of a large family of glycoproteins and a useful tumor marker for adenocarcinoma. It is found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon.



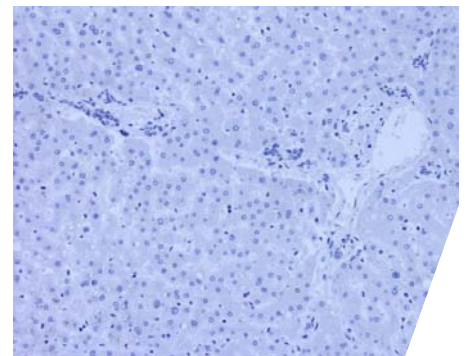
CEA - Appendix

Appendix section has been stained using CEA antibody (Clone: BS33) with 1:250 dilution. Luminal part of columnar epithelia stained strongly.



CEA - Colon carcinoma metastase

Colon carcinoma section has been stained using CEA antibody (Clone: BS33) with 1:250 dilution. Metastase of colon carcinoma in lymph node stained strongly with CEA antibody.



CEA - Liver (Negative)

Liver section has been stained using CEA antibody (Clone: BS33) with 1:250 dilution. No staining of the liver bile ducts (negative control).

CK5 (CK-HMW)

Cat#: BSH-7123-100 100ul, BSH-7123-1 1ml

Clonality: Mouse monoclonal antibody

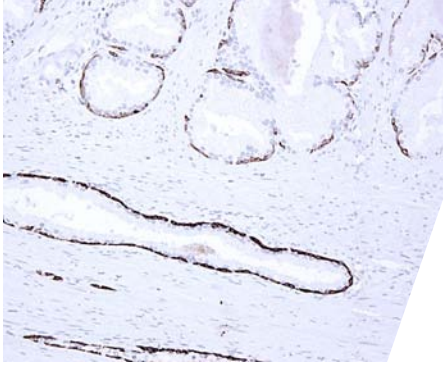
Clone: BS42

Application: IHC-P

S/R: Human

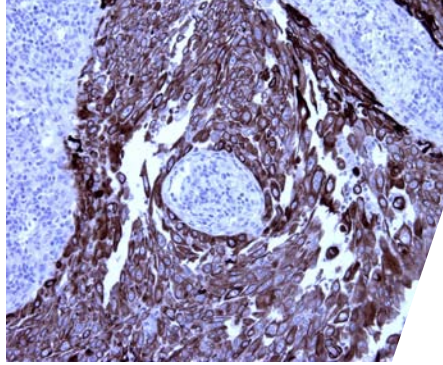
Control tissues: Esophagus, prostate and tonsil

CK5 (cytokeratin 5) is a member of the keratin gene family. Biochemically, most members of the CK family fall into one of two classes, type I (acidic polypeptides) and type II (basic polypeptides). The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. At least one member of the acidic family and one member of the basic family is expressed in all epithelial cells. Cytokeratin 5 is expressed in normal basal cells.



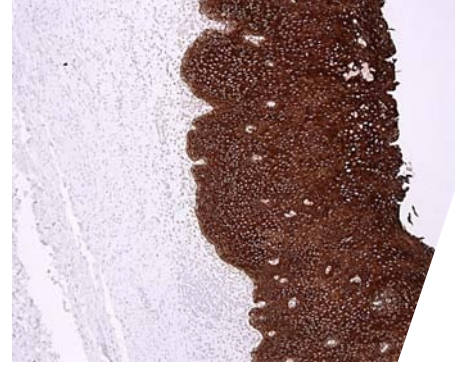
CK5 - Prostate hyperplasia

Prostate section has been stained using CK5 antibody (Clone: BS42) with 1:200 dilution. Prostate basal cells stained strongly.



CK5 - Lung squamous cell carcinoma

Lung squamous cell carcinoma section has been stained using CK5 antibody (Clone: BS42) with 1:200 dilution. Lung squamous cell carcinoma stained intensively.



CK5 - Esophagus

Esophagus section has been stained using CK5 antibody (Clone: BS42) with 1:200 dilution. All layers of squamous epithelium have strong label.

CK17

Cat#: BSH-7311-100 100ul, BSH-7311-1 1ml

Clonality: Mouse monoclonal antibody

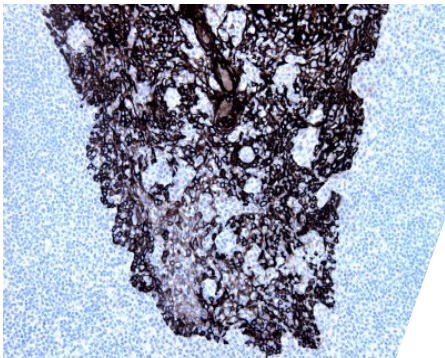
Clone: BS55

Application: IHC-P

S/R: Human

Control tissues: Skin and tonsil

CK17, also known as KRT17, it is the type I intermediate filament chain keratin 17. It is found in nail beds, hair follicles, sebaceous glands, and other epidermal appendages. Mutations in this gene lead to Jackson-Lawler type pachynychia congenita and steatocystoma multiplex. May play a role in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial "stem cells". May act as an autoantigen in the immunopathogenesis of psoriasis, with certain peptide regions being a major target for autoreactive T cells and hence causing their proliferation. It is involved in tissue repair.



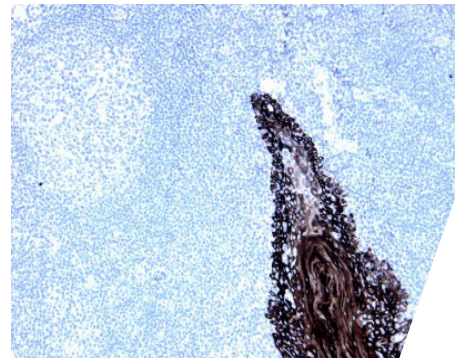
CK17 - Tonsil

Tonsil section has been stained using CK17 antibody (Clone: BS55) with 1:200 dilution. Epithelia of tonsil are stained intensively.



CK17 - Skin

Skin section has been stained using CK17 antibody (Clone: BS55) with 1:200 dilution. Epidermis of the skin stained with permanent red chromogen.



CK17 - Tonsil

Tonsil section has been stained using CK17 antibody (Clone: BS55) with 1:200 dilution. Epithelia of tonsil are stained intensively.

CK18 (CK-LMW)

Cat#: BSH-7235-100 100ul, BSH-7235-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS83

Application: IHC-P

S/R: Human, rabbit, pig, sheep

Control tissues: Liver and appendix

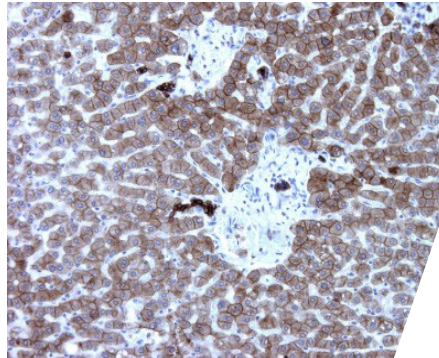


Cytokeratin 18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene.



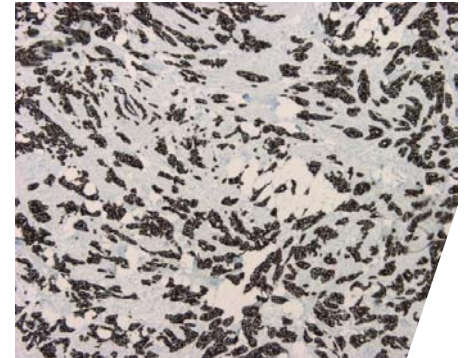
CK18 - Appendix

Appendix section has been stained using CK18 antibody (Clone: BS83) with 1:250 dilution. Columnar epithelium of appendix is strongly stained.



CK18 - Liver

Liver section has been stained using CK18 antibody (Clone: BS83) with 1:250 dilution. Hepatocytes and bile ducts have moderate and strong label.



CK18 - Ductal breast adenocarcinoma

Ductal breast adenocarcinoma section has been stained using CK18 antibody (Clone: BS83) with 1:250 dilution. Carcinoma cells have stained strongly.

CK19

Cat#: BSH-7240-100 100ul, BSH-7240-1 1ml

Clonality: Mouse monoclonal antibody

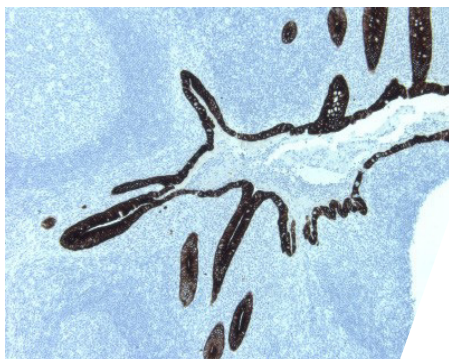
Clone: BS23

Application: IHC-P

S/R: Human, rabbit, pig, sheep, dog

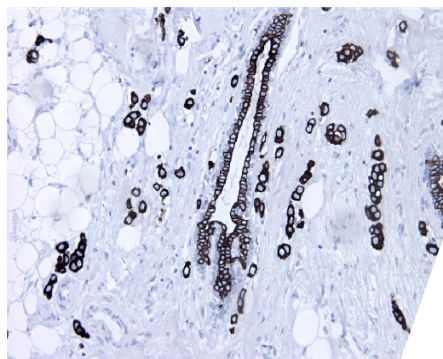
Control tissues: Tonsil, liver and appendix

Cytokeratin 19 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis.



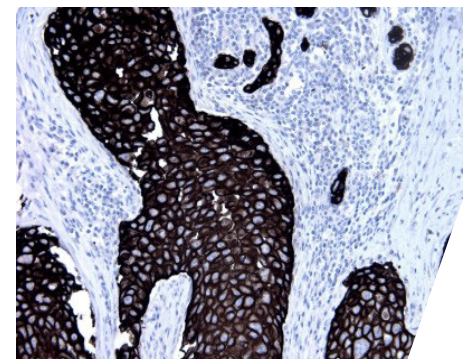
CK19 - Appendix

Appendix section has been stained using CK19 antibody (Clone: BS23) with 1:200 dilution. Columnar epithelia of appendix is strongly stained.



CK19 - Lobular breast carcinoma

Lobular breast carcinoma section has been stained using CK19 antibody (Clone: BS23) with 1:200 dilution. CK19 stains breast lobular carcinoma cells with strong intensity.



CK19 - Ductal breast carcinoma

Ductal breast carcinoma section has been stained using CK19 antibody (Clone: BS23) with 1:200 dilution. Carcinoma cells are strongly stained.

CK20

Cat#: BSH-2000-100 100ul, BSH-2000-1 1ml

Clonality: Mouse monoclonal antibody

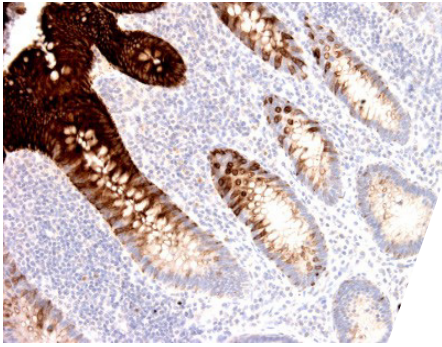
Clone: BS101

Application: IHC-P

S/R: Human, sheep

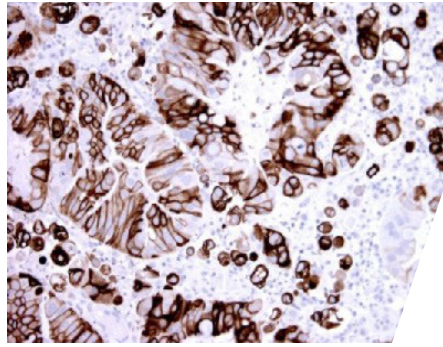
Control tissues: Appendix, colon

Cytokeratin 20 (CK20) is expressed in enterocytes and goblet cells of the gastrointestinal (GI) tract. It is also expressed in specific types of simple epithelial cells of the urinary tract. CK20 is useful marker of colorectal carcinoma, gastric, pancreas, urothelium, merkel and biliary system carcinomas.



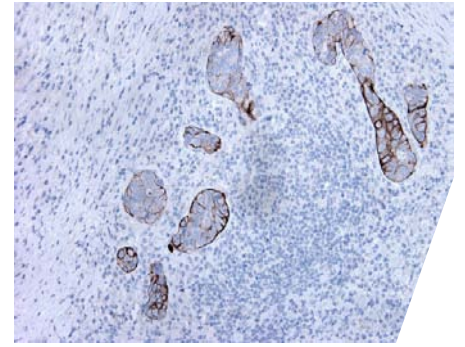
CK20 - Appendix

Appendix section has been stained using CK20 antibody (Clone: BS101) with 1:250 dilution. Columnar epithelium of appendix is strongly stained without any background.



CK20 - Urinary bladder carcinoma

Urinary bladder carcinoma section has been stained using CK20 antibody (Clone: BS101) with 1:250 dilution. Urinary bladder carcinoma cells have strong and intensive signal.



CK20 - Metastasis of colon carcinoma

Lymph node section with metastasis of colon carcinoma has been stained using CK20 antibody (Clone: BS101) with 1:250 dilution. Neoplastic cells have moderate to strong CK20 positivity.

Cytokeratin PAN

Cat#: BSH-7124-100 100ul, BSH-7124-1 1ml

Clonality: Mouse monoclonal antibody

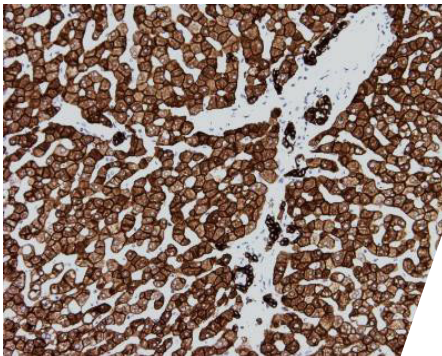
Clone: BS5

Application: IHC-P

S/R: Human, sheep, pig, dog

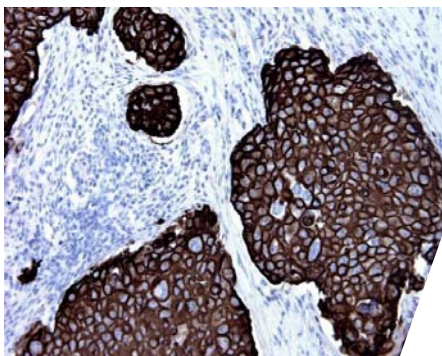
Control tissues: Appendix and liver

Cytokeratins are classified into one of two classes, type I (acidic polypeptides) and type II (basic polypeptides). Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. Cytokeratins have been found to be useful markers of tissue differentiation which is directly applicable to the characterization of malignant tumors.



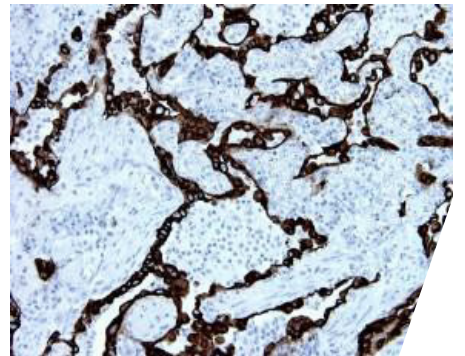
CKpan - Liver

Liver section has been stained using CKpan antibody (Clone: BS5) with 1:200 dilution. Hepatocytes have membranous staining pattern with moderate label. Bile ducts have strong label.



CKpan - Ductal breast adenocarcinoma

Ductal breast adenocarcinoma section has been stained using CKpan antibody (Clone: BS5) with 1:200 dilution. CKpan stains carcinoma cells intensively.



CKpan - Lung adenocarcinoma

Lung adenocarcinoma section has been stained using CKpan antibody (Clone: BS5) with 1:200 dilution. CKpan stains neoplastic cells strongly.

Desmin

Cat#: BSH-7082-100 100ul, BSH-7082-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS21

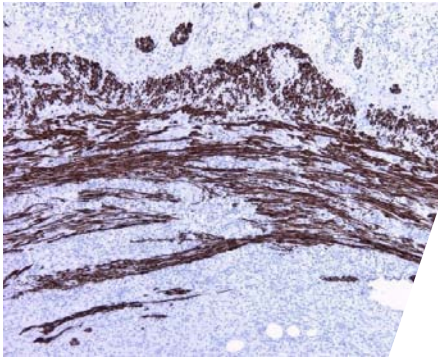
Application: IHC-P

S/R: Human, rabbit, rat, sheep, pig

Control tissues: Appendix and placenta

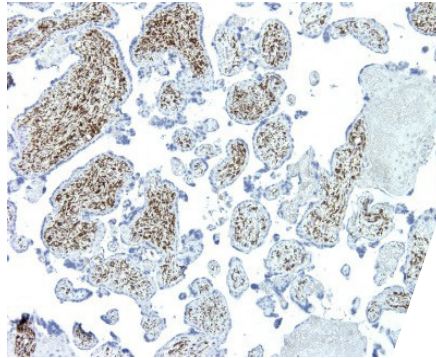


Desmin (DES), with 470-amino acid protein (about 52kDa), belongs to the intermediate filament family and Desmin is class III intermediate filaments found in muscle cells. Homopolymers of Desmin form a stable intracytoplasmic filamentous network connecting myofibrils to each other and to the plasma membrane. Mutations in Desmin are associated with desmin-related myopathy, a familial cardiac and skeletal myopathy (CSM), and with distal myopathies. Desmin is also expressed in smooth muscle cells of both airways and alveolar ducts. Desmin is a load-bearing protein that stiffens the airways and consequently the lung and modulates airway contractile response. Desmin is especially useful for identification of leiomyosarcoma and rhabdomyosarcoma and other myogenic and mesenchymal neoplasms.



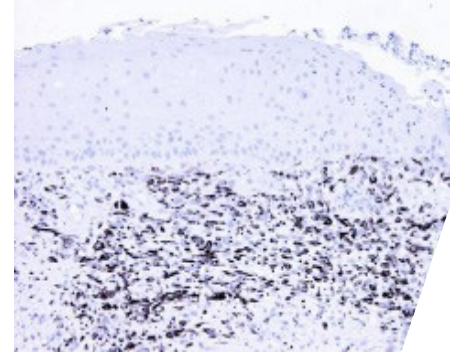
Desmin - Appendix

Appendix section has been stained using Desmin antibody (Clone: BS21) with 1:200 dilution. Muscularis propria of appendix stained strongly.



Desmin - Placenta

Placenta section has been stained using Desmin antibody (Clone: BS21) with 1:200 dilution. Smooth muscle cells have strong label.



Desmin - Rhabdomyosarcoma

Rhabdomyosarcoma section has been stained using Desmin antibody (Clone: BS21) with 1:200 dilution. Neoplastic cells have strong label.

E-cadherin

Cat#: BSH-7516-100 100ul, BSH-7516-1 1ml

Clonality: Mouse monoclonal antibody

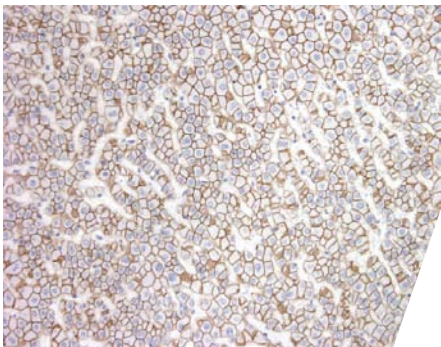
Clone: BS38

Application: IHC-P

S/R: Human, dog, rabbit, rat, mouse, sheep, pig

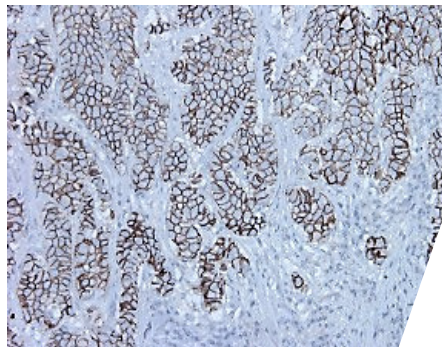
Control tissues: Ductal breast carcinoma (+), lobular breast carcinoma (-), liver

E-Cadherin is a 120 kDa transmembrane glycoprotein that is localized in the adherens junctions of epithelial cells. There, it interacts with the cytoskeleton through the associated cytoplasmic catenin proteins. E-Cadherin is a critical regulator of epithelial junction formation. Its association with catenins is necessary for cell-cell adhesion. These E-cadherin/catenin complexes associate with cortical actin bundles at both the zonula adherens and the lateral adhesion plaques. E-Cadherin expression is often down-regulated in highly invasive, poorly differentiated carcinomas. Increased expression of E-Cadherin in these cells reduces invasiveness. Thus, loss of expression or function of E-Cadherin appears to be an important step in tumorigenic progression. E-cadherin used for differential diagnosis between ductal and lobular breast carcinoma.



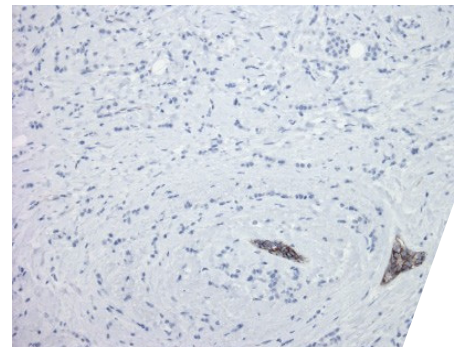
E-cadherin - Liver

Liver section has been stained using E-cadherin antibody (Clone: BS38) with 1:250 dilution. Membranes of hepatocytes and bile ducts have strong label.



E-cadherin - Ductal breast carcinoma

Ductal breast carcinoma section has been stained using E-cadherin antibody (Clone: BS38) with 1:250 dilution. Carcinoma cells have strong membranous label.



E-cadherin - Lobular breast carcinoma

Lobular breast carcinoma section has been stained using E-cadherin antibody (Clone: BS38) with 1:250 dilution. No staining in the lobular breast carcinoma.

EpCAM

Cat#: BSH-7402-100 100ul, BSH-7402-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS14

Application: IHC-P

S/R: Human, rat, sheep, pig

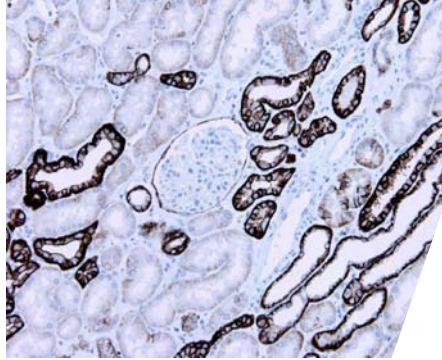
Control tissues: Kidney and appendix

Epithelial Cell Adhesion Molecule (EpCAM) is a 40 kDa cell surface antigen and this protein is expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. EpCAM is a Type 1 transmembrane glycoprotein and it is expressed on the basolateral membrane of cells by the majority of epithelial tissues, with the exception of adult squamous epithelium and some specific epithelial cell types including hepatocytes and gastric epithelial cells. EpCAM expression has been reported to be a possible marker of early malignancy, with expression being increased in tumor cells, and de novo expression being seen in dysplastic squamous epithelium. This cell surface, glycosylated 40kD protein is highly expressed in the bone marrow, colon, lung, and most normal epithelial cells and is expressed on carcinomas of gastrointestinal origin.



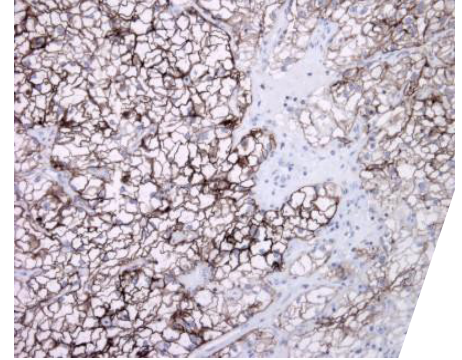
EpCAM - Appendix

Appendix section has been stained using EpCAM antibody (Clone: BS14) with 1:200 dilution. Columnar epithelial cells of appendix have strong membranous label.



EpCAM - Kidney

Kidney section has been stained using EpCAM antibody (Clone: BS14) with 1:200 dilution. Strong staining in epithelia of collecting tubules and moderate and weak staining in epithelia of proximal tubules and Bowman's capsule.



EpCAM - Renal clear cell carcinoma

Renal clear cell carcinoma section has been stained using EpCAM antibody (Clone: BS14) with 1:200 dilution. Neoplastic cells have strong to moderate membranous label.

Glucagon

Cat#: BSH-7443-100 100ul, BSH-7443-1 1ml

Clonality: Mouse monoclonal antibody

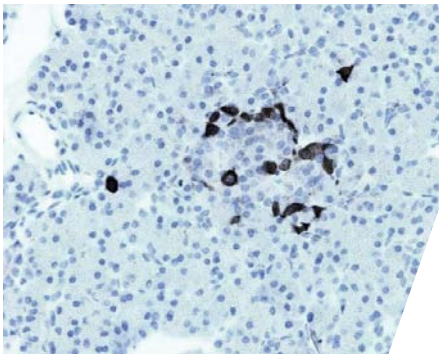
Clone: BS71

Application: IHC-P

S/R: Human

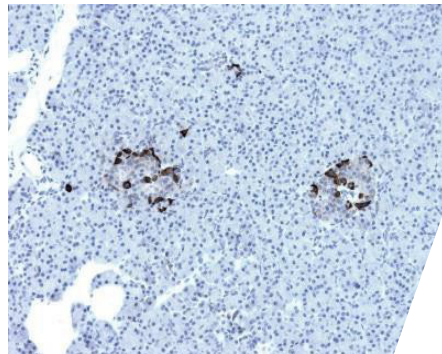
Control tissues: Pancreas

Glucagon, is a pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a specific G-protein linked receptor whose signaling pathway controls cell proliferation. Two of the other peptides are secreted from gut endocrine cells and promote nutrient absorption through distinct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon. Glucagon is secreted in the alpha cells of the islets of Langerhans. GLP-1, GLP-2, oxyntomodulin and glicentin are secreted from enteroendocrine cells throughout the gastrointestinal tract. GLP1 and GLP2 are also secreted in selected neurons in the brain.



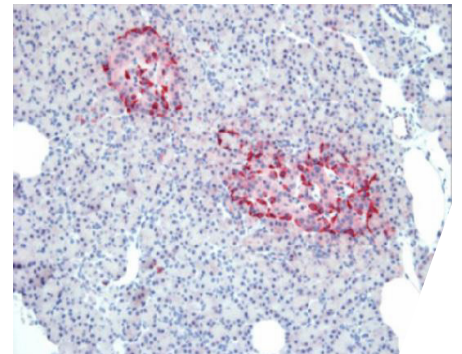
Glucagon - Pancreas

Pancreas section has been stained using glucagon antibody (Clone: BS71) with 1:200 dilution. Glucagon secreted alpha cells of pancreas have strong cytoplasmic label.



Glucagon - Pancreas

Pancreas section has been stained using glucagon antibody (Clone: BS71) with 1:200 dilution. Glucagon secreted alpha cells of pancreas have strong cytoplasmic label.



Glucagon - Pancreas

Pancreas section has been stained using glucagon antibody (Clone: BS71) with 1:200 dilution. Glucagon secreted alpha cells of pancreas have strong cytoplasmic label.

HER2

Cat#: BSH-7182-100 100ul, BSH-7182-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS24

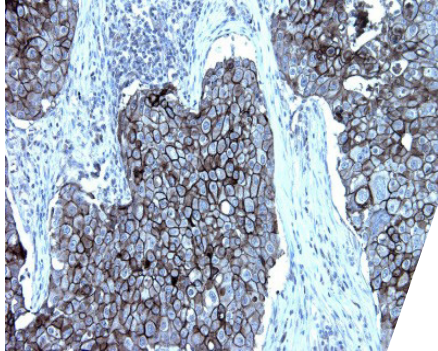
Application: IHC-P

S/R: Human

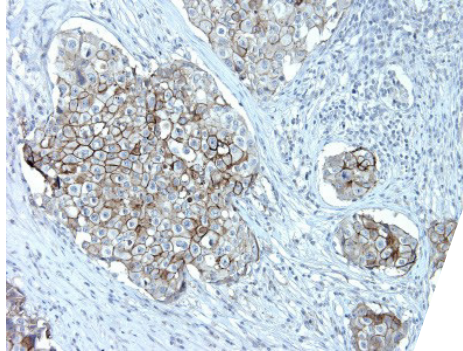
Control tissues: HER2 positive breast cancer cases with different graduses



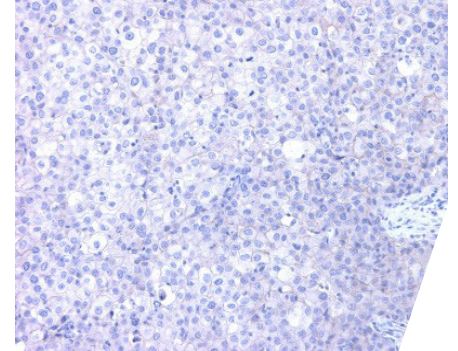
HER2/ERBB2, is a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand- bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and gastric tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. Immunohistochemical staining of HER 2 protein is graded as 0/1+, 2+ and 3+.



HER2 - Ductal breast cancer, 3+
Breast carcinoma section has been stained using HER2 optibody (Clone: BS24) with 1:200 dilution. Carcinoma cells are HER2 positive with strong membranous label.



HER2 - Ductal breast cancer, 3+
Breast carcinoma section has been stained using HER2 optibody (Clone: BS24) with 1:200 dilution. Carcinoma cells are HER2 positive with strong to moderate membranous label.



HER2 - Ductal breast cancer, 0/1+
Breast carcinoma section has been stained using HER2 optibody (Clone: BS24) with 1:200 dilution. Carcinoma cells are HER2 negative without label.

Insulin

Cat#: BSH-2010-100 100ul, BSH-2010-1 1ml

Clonality: Mouse monoclonal antibody

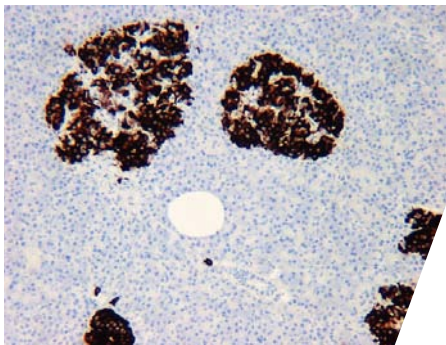
Clone: BS22

Application: IHC-P

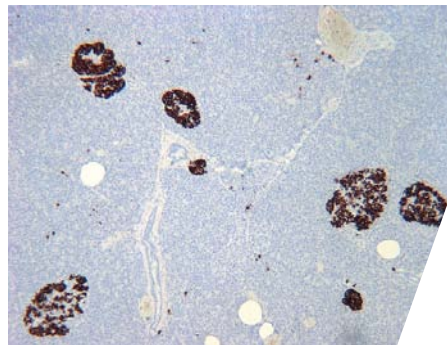
S/R: Human

Control tissues: Pancreas

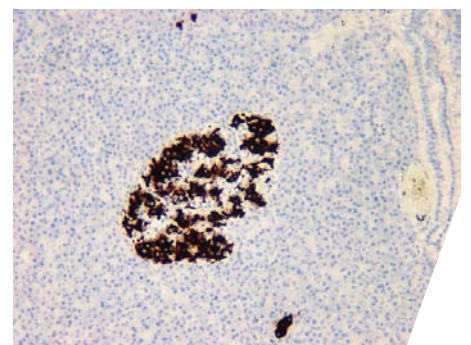
Insulin is a pancreatic hormone that regulates glucose level in blood and it is involved in the synthesis of proteins and fat. Insulin increases cell permeability to monosaccharides, amino acids, and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver. Insulin is a heterodimer of a B chain and A chain linked by two disulfide bonds. Defects in insulin are the cause of familial hyperproinsulinemia. Insulin is present on the insulin secreted beta cells in islets of Langerhans.



Insulin - Pancreas
Pancreas section has been stained using insulin optibody (Clone: BS22) with 1:200 dilution. Insulin secreted beta cells have strong label in islets of Langerhans.



Insulin - Pancreas
Pancreas section has been stained using insulin optibody (Clone: BS22) with 1:200 dilution. Insulin secreted beta cells have strong label in islets of Langerhans.



Insulin - Pancreas
Pancreas section has been stained using insulin optibody (Clone: BS22) with 1:200 dilution. Insulin secreted beta cells have strong label in islets of Langerhans.

Ki67

Cat#: BSH-7302-100 100ul, BSH-7302-1 1ml

Clonality: Mouse monoclonal antibody

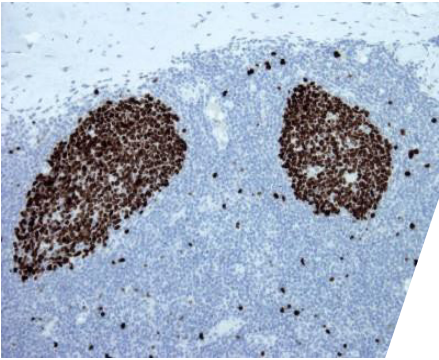
Clone: BS4

Application: IHC-P

S/R: Human, sheep, dog

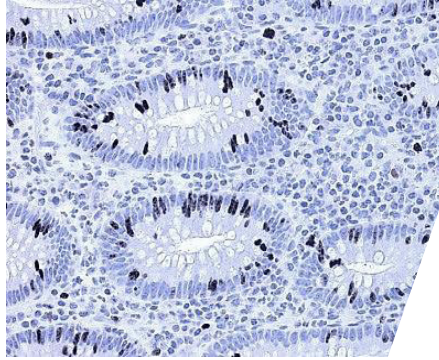
Control tissues: Tonsil, colon/appendix

Ki67, also known as MKI67, is a prototypic cell cycle related nuclear protein, expressed by proliferating cells in all phases of the active cell cycle (G1, S, G2 and M phase). It is absent in resting (G0) cells. Ki67 staining are useful in establishing the cell growing fraction in neoplasms (immunohistochemically quantified by determining the number of Ki67 positive cells among the total number of resting cells = Ki67 index). The correlation between low Ki67 index and histologically low grade tumors is strong. Ki67 is routinely used in breast cancer diagnostics and as a neuronal marker of cell cycling and proliferation.



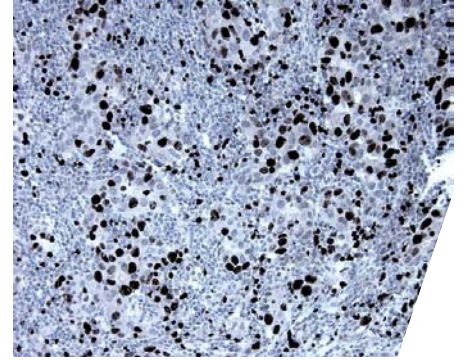
Ki67 - Tonsil

Tonsil section has been stained using Ki67 antibody (Clone: BS4) with 1:200 dilution. Majority of the germinal center B cells have strong nuclear label.



Ki67 - Appendix

Appendix section has been stained using Ki67 antibody (Clone: BS4) with 1:200 dilution. Strong nuclear staining in proliferating cells of intestinal crypts.



Ki67 - Breast ductal adenocarcinoma

Breast carcinoma section has been stained using Ki67 antibody (Clone: BS4) with 1:200 dilution. Proliferating neoplastic cells have strong to moderate nuclear label.

L1CAM

Cat#: BSH-3005-100 100ul, BSH-3005-1 1ml

Clonality: Rabbit monoclonal antibody

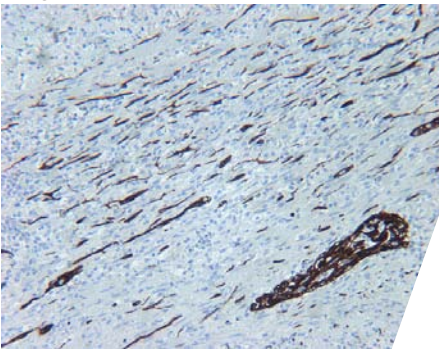
Clone: BSR3

Application: IHC-P

S/R: Human

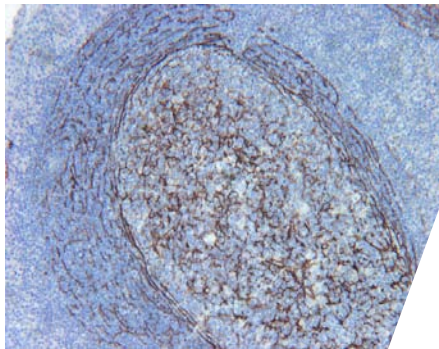
Control tissues: Tonsil, appendix

Cell adhesion molecule with an important role in the development of the nervous system. The L1, neural cell adhesion molecule (L1CAM) plays an important role in axon growth, fasciculation, neural migration and in mediating neuronal differentiation. L1 protein is expressed to tissues arising from neuroectoderm. L1CAM plays also an important role in the malignancy of human tumors and according to several studies, L1CAM positive carcinomas have a bad prognosis. L1CAM is overexpressed in many human carcinomas but it is useful especially in endometrium carcinoma diagnostic.



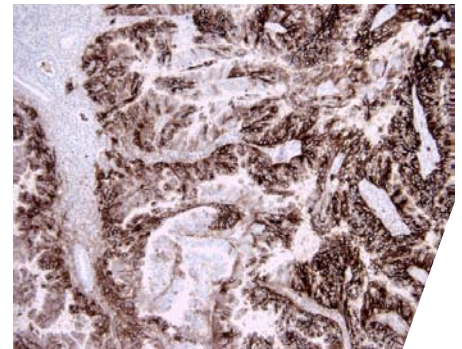
L1CAM - Appendix

Appendix section has been stained using L1CAM antibody (Clone: BSR3) with 1:200 dilution. Neuronal plexuses and axons of muscular propria have strong label.



L1CAM - Tonsil

Tonsil section has been stained using L1CAM antibody (Clone: BSR3) with 1:200 dilution. Germinal center of tonsil has moderate to strong label.



L1CAM - Endometrium carcinoma

Endometrium carcinoma section has been stained using L1CAM antibody (Clone: BSR3) with 1:200 dilution. L1CAM positive carcinoma cells have strong label.

Mammaglobin

Cat#: BSH-7589-100 100ul, BSH-7589-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS17

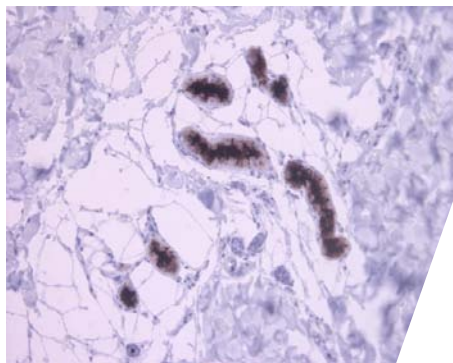
Application: IHC-P

S/R: Human

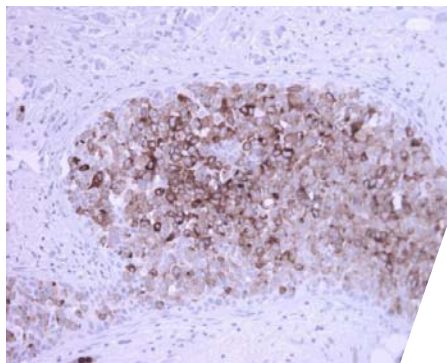
Control tissues: Skin (sweat glands), breast cancer



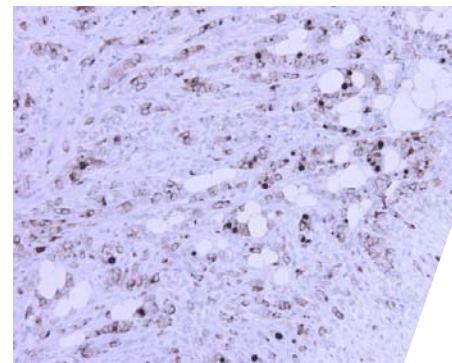
Mammaglobin is a gene that is expressed almost exclusively in the normal breast epithelium and human breast cancer. It is a member of the secretoglobulin gene family and forms a heterodimer with lipophilin B. It has been suggested that mammaglobin may be a useful marker for breast cancer clinical research. Studies investigating the detection of mRNA by RT PCR from circulating carcinoma cells in the peripheral blood of breast cancer patients have shown that mammaglobin is a highly specific marker and correlates with several prognostic factors. Mammaglobin is mammary gland specific and it over expressed in breast cancer.



Mammaglobin - Skin (Sweat glands)
Skin section has been stained using mammaglobin optibody (Clone: BS17) with 1:200 dilution. Sweat glands and lumen of sweat glands have strong label.



Mammaglobin - Ductal breast cancer
Breast carcinoma section has been stained using mammaglobin optibody (Clone: BS17) with 1:200 dilution. Most of the carcinoma cells have strong to moderate staining reaction.



Mammaglobin - Ductal breast cancer
Breast carcinoma section has been stained using mammaglobin optibody (Clone: BS17) with 1:200 dilution. Most of the carcinoma cells have strong to moderate staining reaction.

MBP

Cat#: BSH-7697-100 100ul, BSH-7697-1 1ml

Clonality: Mouse monoclonal antibody

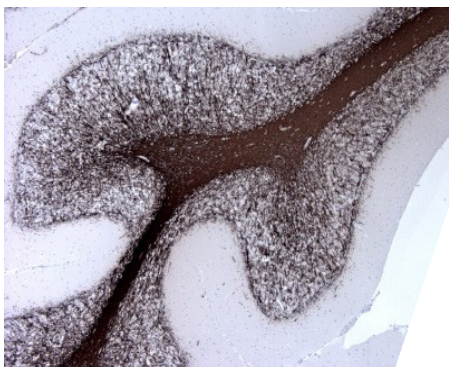
Clone: BS188

Application: IHC-P

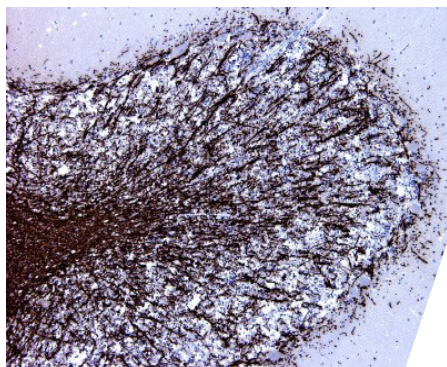
S/R: Human, rat, mouse

Control tissues: Brain, spine cord

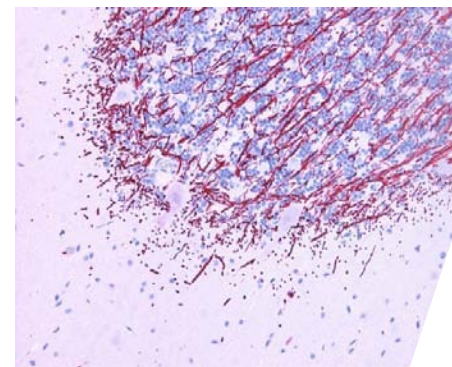
The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, MBP-related transcripts are also present in the bone marrow and the immune system. MBP gene encode hybrid proteins that have N-terminal Golli aa sequence linked to MBP aa sequence. The second family of transcripts contain only MBP exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that the MBP transcription unit is an integral part of the Golli transcription unit and that this arrangement is important for the function and/or regulation of these genes.



MBP - Brain (Cerebellum)
Brain section has been stained using MBP optibody (Clone: BS188) with 1:200 dilution. Myelin in granular cell layer has strong label.



MBP - Brain (Cerebellum)
Brain section has been stained using MBP optibody (Clone: BS188) with 1:200 dilution. Myelin in granular cell layer has strong label.



MBP - Brain (Cerebellum)
Brain section has been stained using MBP optibody (Clone: BS188) with 1:200 dilution. Myelin in granular cell layer has strong label. AP-polymer with Permanent red have been used as visualization.

MCM2

Cat#: BSH-7698-100 100ul, BSH-7698-1 1ml

Clonality: Mouse monoclonal antibody

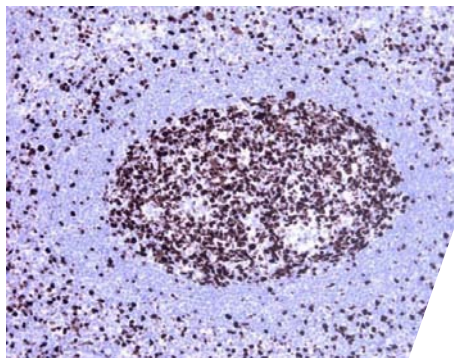
Clone: BS18

Application: IHC-P

S/R: Human

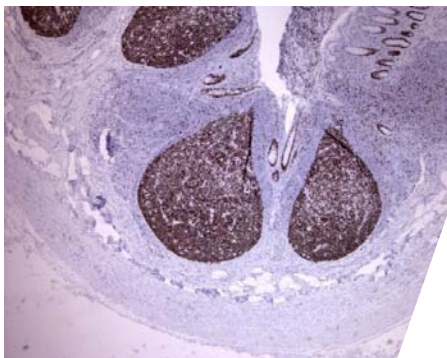
Control tissues: Tonsil, appendix

The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. MCM2 is localized in the nucleus and it is expressed during interphase. MCM2 is essential protein in cell cycle and it is needed for entry into the S phase and cell division. MCM2 is a proliferation marker and it is useful for identification of premalignant lesions and evaluation of proliferation indexes.



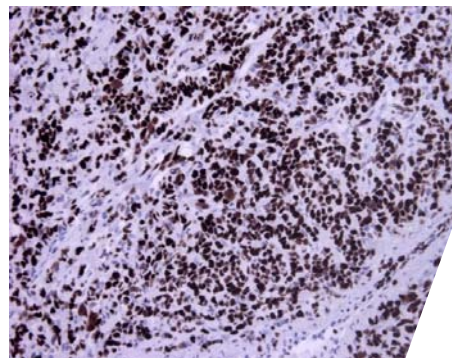
MCM2 - Tonsil

Tonsil section has been stained using MCM2 optibody (Clone: BS18) with 1:200 dilution. Proliferating cells have strong label in the germinal center.



MCM2 - Appendix

Appendix section has been stained using MCM2 optibody (Clone: BS18) with 1:200 dilution. Proliferating cells have strong label in the germinal center of appendix. Also basal cells of intestinal crypts have strong nuclear label.



MCM2 - Ductal breast cancer

Ductal breast cancer section has been stained using MCM2 optibody (Clone: BS18) with 1:200 dilution. Proliferate carcinoma cells have strong nuclear label.

Melan A

Cat#: BSH-2003-100 100ul, BSH-2003-1 1ml

Clonality: Mouse monoclonal antibody

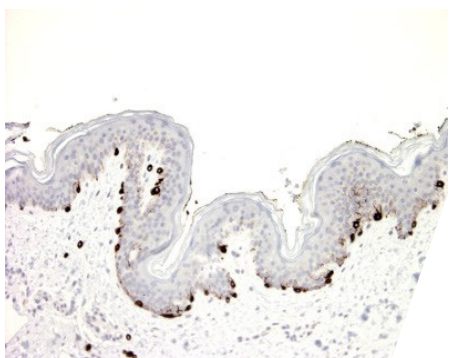
Clone: BS52

Application: IHC-P

S/R: Human

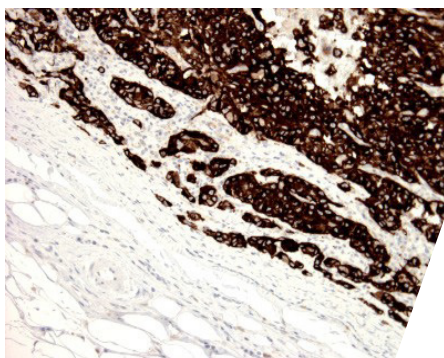
Control tissues: Skin, melanoma, nevus

Melan-A (MART-1) is a transmembrane protein which is recognized by autologous cytotoxic T lymphocytes. Melan A is expressed in skin melanocytes and melanocyte lineages. This antibody is useful for the identification of melanomas and it should be included into standard melanoma panel for diagnostic. This antibody not cross react with cells of adrenal cortex.



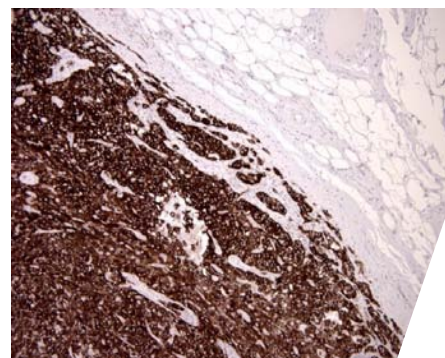
Melan A - Skin

Normal skin section has been stained using Melan A optibody (Clone: BS52) with 1:250 dilution. Melanocytes have strong cytoplasmic label.



Melan A - Melanoma

Melanoma section has been stained using Melan A optibody (Clone: BS52) with 1:250 dilution. Melanoma cells stained with strong staining intensity without background staining in normal cells.



Melan A - Melanoma

Melanoma section has been stained using Melan A optibody (Clone: BS52) with 1:250 dilution. Melanoma cells stained with strong staining intensity without background staining in normal cells.

MLH1

Cat#: BSH-7208-100 100ul, BSH-7208-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS29

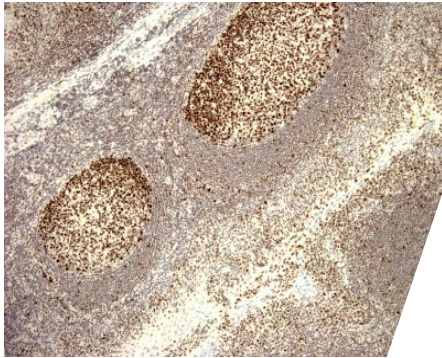
Application: IHC-P

S/R: Human

Control tissues: Tonsil, colon carcinoma, MLH1 mutated colon carcinoma

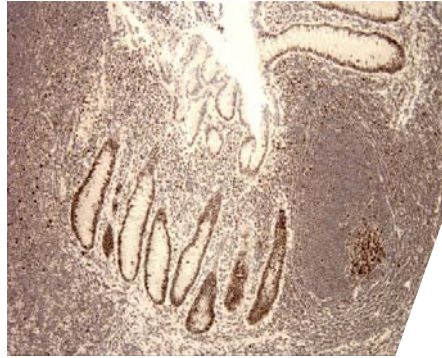


DNA-mismatch repair (MMR), a conserved process that involves correcting errors made during DNA synthesis, is crucial to the maintenance of genomic integrity. Lack of a functional DNA-mismatch repair pathway is a common characteristic of several different types of human cancers, either due to an MMR gene mutation or promoter-methylation gene silencing. Loss of MLH1 protein expression is associated with a mutated phenotype, microsatellite instability and a predisposition to cancer. In hereditary nonpolyposis colorectal cancer (HNPCC), an autosomal dominant inherited cancer syndrome that signifies a high risk of colorectal and various other types of cancer, the MLH1 gene exhibits a pathogenic mutation. Inactivation of the MLH1 gene causes genome instability and predisposition to cancer.



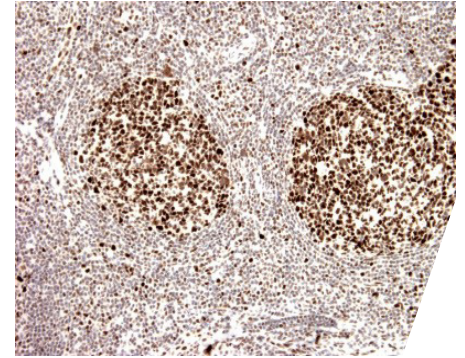
MLH1 - Tonsil

Tonsil section has been stained using MLH1 antibody (Clone: BS29) with 1:250 dilution. Germinal center cells have strong cytoplasmic label. Moderate label observed from cells of the mantle zone.



MLH1 - Appendix

Appendix section has been stained using MLH1 antibody (Clone: BS29) with 1:250 dilution. Germinal center cells as well as enterocytes have strong cytoplasmic label. Moderate label observed from cells of the mantle zone.



MLH1 - Tonsil

Tonsil section has been stained using MLH1 antibody (Clone: BS29) with 1:250 dilution. Germinal center cells have strong cytoplasmic label. Moderate label observed from cells of the mantle zone.

Napsin A

Cat#: BSH-2002-100 100ul, BSH-2002-1 1ml

Clonality: Mouse monoclonal antibody

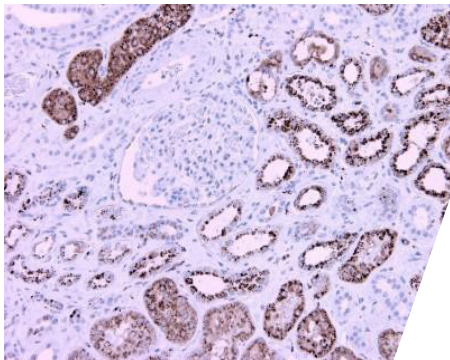
Clone: BS10

Application: IHC-P

S/R: Human

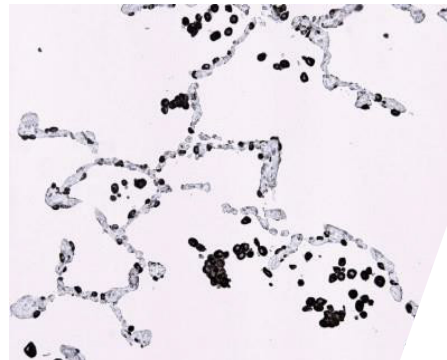
Control tissues: Kidney, lung

Napsin A is an aspartic proteinase that is expressed predominantly in lung (type II pneumocytes) and kidney and lower levels in spleen and blood leukocytes. Alveolar macrophages contains also Napsin A due phagocytosis of pneumocytes. Napsin A is useful especially in the differential diagnosis of lung adenocarcinoma between squamous cell carcinoma.



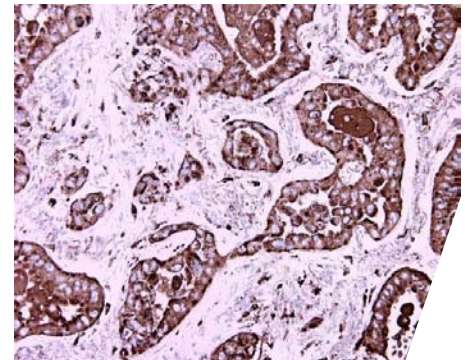
Napsin A - Kidney

Kidney section has been stained using Napsin A antibody (Clone: BS10) with 1:300 dilution. Proximal tubule cells have stained strongly with granular cytoplasmic staining reaction.



Napsin A - Lung

Lung section has been stained using Napsin A antibody (Clone: BS10) with 1:300 dilution. Pneumocytes and alveolar macrophages have cytoplasmic label.



Napsin A - Lung adenocarcinoma

Lung adenocarcinoma section has been stained using Napsin A antibody (Clone: BS10) with 1:300 dilution. Carcinoma cells have strong cytoplasmic label.

P53

Cat#: BSH-7287-100 100ul, BSH-7287-1 1ml

Clonality: Mouse monoclonal antibody

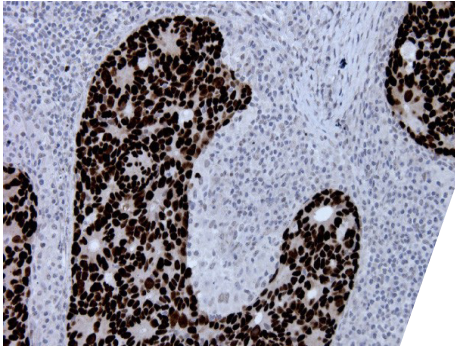
Clone: BS12

Application: IHC-P

S/R: Human

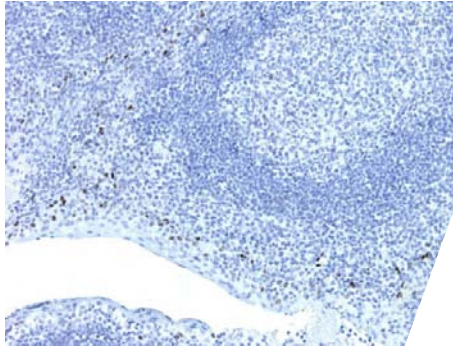
Control tissues: Tonsil

P53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. P53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it's believed to contribute to transformation and malignancy. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. P53 is especially useful for differential diagnosis of dysplastic and neoplastic tissues.



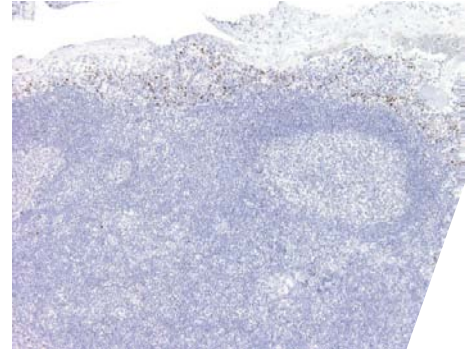
P53 - Metastase of colon carcinoma in lymph node

Metastase section has been stained using P53 optibody (BS12) with 1:200 dilution. Carcinoma cells have strong staining reaction with nuclear staining pattern.



P53 - Tonsil

Tonsil section has been stained using P53 optibody (BS12) with 1:200 dilution. Scattered basal cells of epithelium have stained moderately with nuclear staining pattern.



P53 - Tonsil

Tonsil section has been stained using P53 optibody (BS12) with 1:200 dilution. Scattered basal cells of epithelium have stained moderately with nuclear staining pattern.

P63

Cat#: BSH-3006-100 100ul, BSH-3006-1 1ml

Clonality: Rabbit monoclonal antibody

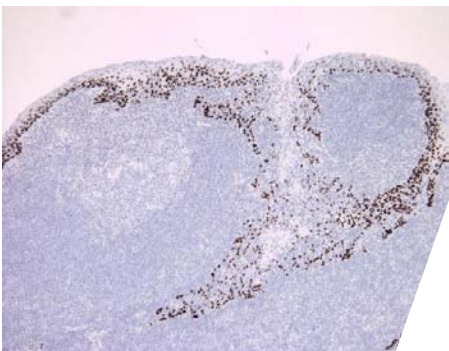
Clone: BSR6

Application: IHC-P

S/R: Human (Others not tested)

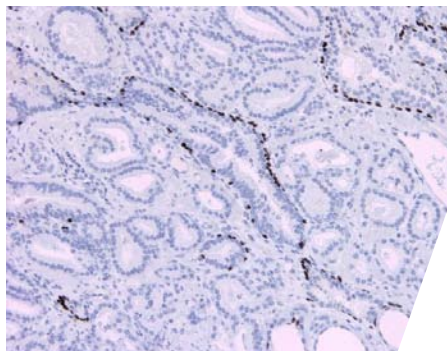
Control tissues: Tonsil, prostate

The p63 gene is a homologue of the p53 tumor suppressor gene. The p63 gene encodes for at least six major isootypes. P63 protein is a nuclear transcription factor and it is highly expressed in the basal cells of the epithelium. P63 is a useful marker for squamous, urothelial and myoepithelial carcinomas. P63 is found in the large majority of cases of squamous cell carcinoma. In basal-like subtype breast carcinoma, p63 is rarely detected. Prostate adenocarcinoma is typically P63 negative and P63 staining is useful for diagnosis of the prostate adenocarcinomas together with HMW-CK and AMACR.



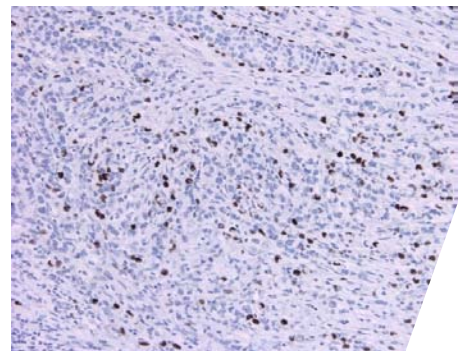
P63 - Tonsil

Tonsil section has been stained using P63 optibody (BSR6) with 1:200 dilution. Basal cells of epithelium have strongly stained with nuclear staining pattern.



P63 - Prostate adenocarcinoma

Prostate adenocarcinoma section has been stained using P63 optibody (BSR6) with 1:200 dilution. Normal prostate glands are P63 positive, prostate adenocarcinoma are P63 negative.



P63 - Ductal breast carcinoma

Breast carcinoma section has been stained using P63 optibody (BSR6) with 1:200 dilution. Scattered and strongly to moderately stained, P63 positive carcinoma cells were observed.

P63

Cat#: BSH-7449-100 100ul, BSH-7449-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS63

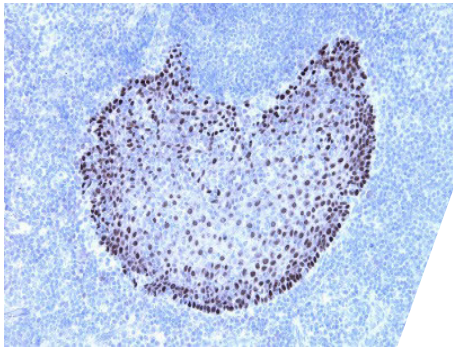
Application: IHC-P

S/R: Human

Control tissues: Tonsil, prostate

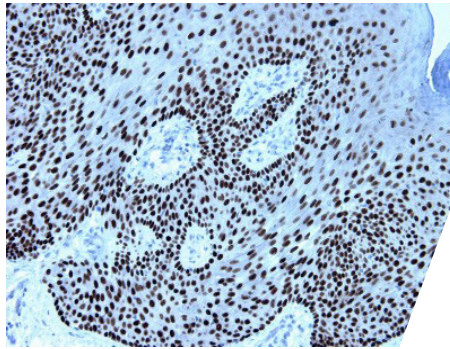


The p63 gene is a homologue of the p53 tumor suppressor gene. The p63 gene encodes for at least six major isoforms. P63 protein is a nuclear transcription factor and it is highly expressed in the basal cells of the epithelium. P63 is a useful marker for squamous, urothelial and myoepithelial carcinomas. P63 is found in the large majority of cases of squamous cell carcinoma. In basal-like subtype breast carcinoma, p63 is rarely detected. Prostate adenocarcinoma is typically P63 negative and P63 staining is useful for diagnosis of the prostate adenocarcinomas together with HMW-CK and AMACR.



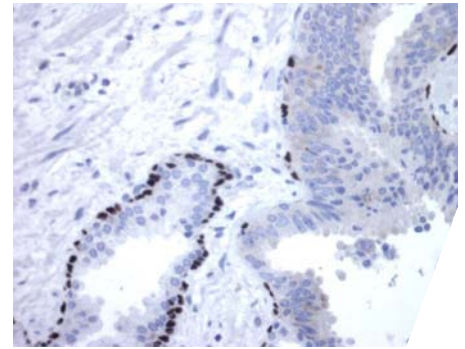
P63 - Tonsil

Tonsil section have been stained using P63 optibody (BS63) with 1:200 dilution. Basal cells of epithelium have strongly stained with nuclear staining pattern.



P63 - Skin

Skin section have been stained using P63 optibody (BS63) with 1:200 dilution. Basal cells of epithelium have strongly stained with nuclear staining pattern.



P63 - Prostate PIN

Prostate PIN section have been stained using P63 optibody (BS63) with 1:200 dilution. Normal prostate glands are P63 positive, prostate adenocarcinoma are P63 negative.

PAX5

Cat#: BSH-7833-100 100ul, BSH-7833-1 1ml

Clonality: Mouse monoclonal antibody

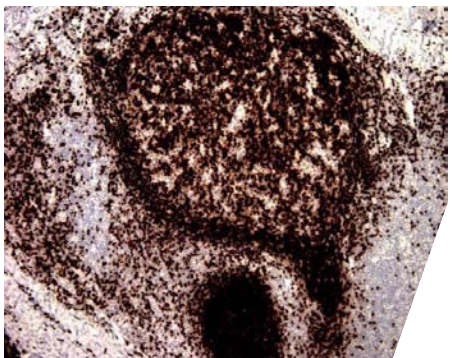
Clone: BS11

Application: IHC-P

S/R: Human, rabbit, rat, mouse, pig, sheep

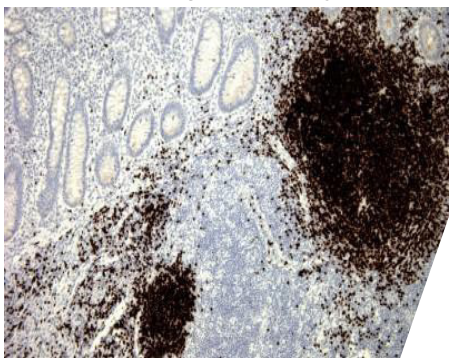
Control tissues: Tonsil, appendix, hodgkin's lymphoma

This gene encodes a member of the paired box (PAX) family of transcription factors. PAX proteins are important regulators in early development, and alterations in the expression of their genes are thought to contribute to neoplastic transformation. This gene encodes the B-cell lineage specific activator protein that is expressed at early, but not late stages of B-cell differentiation. This protein expressed is involved in in small lymphocytic lymphomas of the plasmacytoid subtype, and in derived large-cell lymphomas. This translocation brings the potent E-mu enhancer of the IgH gene into close proximity of the PAX5 promoter, suggesting that the deregulation of transcription of this gene contributes to the pathogenesis of these lymphomas. Alternatively spliced transcript variants encoding different isoforms have been described but their biological validity has not been determined.



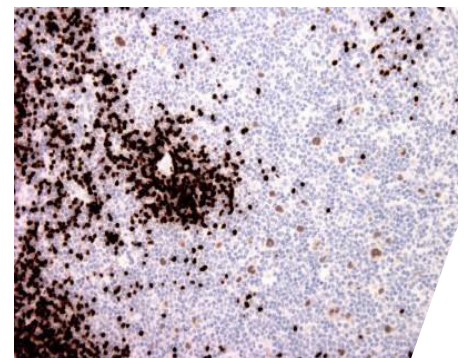
PAX5 - Tonsil

Tonsil section has been stained using PAX5 optibody (BS11) with 1:250 diltion. B cells have strong nuclear label.



PAX5 - Appendix

Appendix section has been stained using PAX5 optibody (BS11) with 1:250 dilution. B cells have strong nuclear label.



PAX5 - Hodgkin's lymphoma

Hodgkin's lymphoma section has been stained using PAX5 optibody (BS11) with 1:250 dilution. B cells have strong nuclear label and Hodgkin's cells stained with moderate staining intensity.

PD1

Cat#: BSH-3001-100 100ul, BSH-3001-1 1ml

Clonality: Rabbit monoclonal antibody

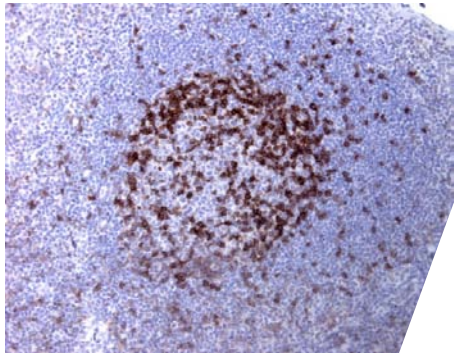
Clone: BSR1

Application: IHC-P

S/R: Human

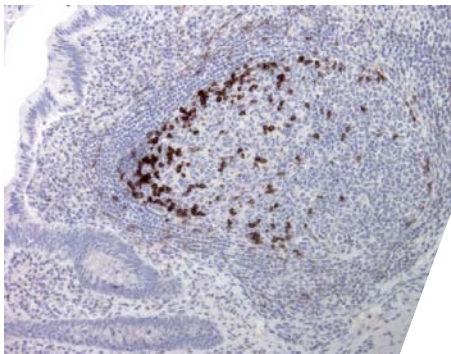
Control tissues: Tonsil, appendix

Programmed death-1 (PD1) is a member of the CD28 family of receptors and plays a role in the cellular immune response. PD1 is a marker of the activated T- and B-lymphocytes and it also expressed cells of myeloid origin. PD1 expressed mostly in T cells in germinal centers of lymphatic tissue. PD1 is a valuable marker of T-cell neoplasia and especially it is useful for diagnosis of the angioimmunoblastic lymphoma.



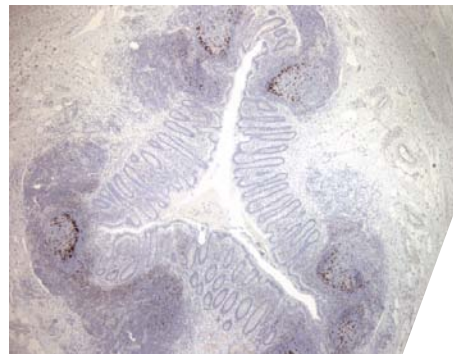
PD1 - Tonsil

Tonsil section have been stained using PD1 optibody (BSR1) with 1:200 dilution. T cells in germinal center have a strong membranous label.



PD1 - Appendix

Appendix section have been stained using PD1 optibody (BSR1) with 1:200 dilution. T cells in germinal center of appendix have strong and intensive label.



PD1 - Appendix

Appendix section have been stained using PD1 optibody (BSR1) with 1:200 dilution. T cells in germinal center have strong label.

SMA

Cat#: BSH-7459-100 100ul, BSH-7459-1 1ml

Clonality: Mouse monoclonal antibody

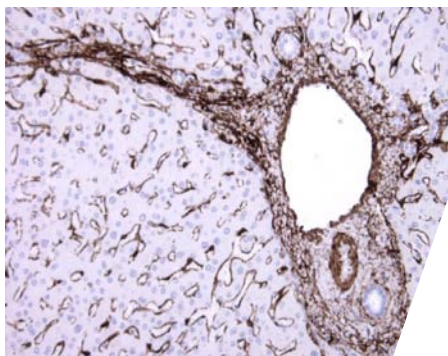
Clone: BS66

Application: IHC-P

S/R: Human, rabbit, rat, mouse, pig, sheep

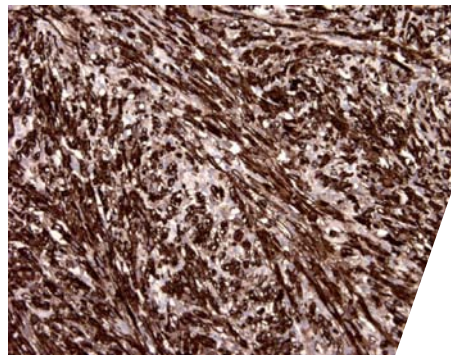
Control tissues: Liver, appendix

The protein encoded by ACTA2 gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This smooth muscle specific alpha actin (SMA) stains actin from smooth muscle cells, myoepithelial cells, and myofibroblasts without cross-reaction of skeletal muscle. SMA is used especially for detection of leiomyomatous and myofibroblastic tumours, GIST and mesenchymal tumours.



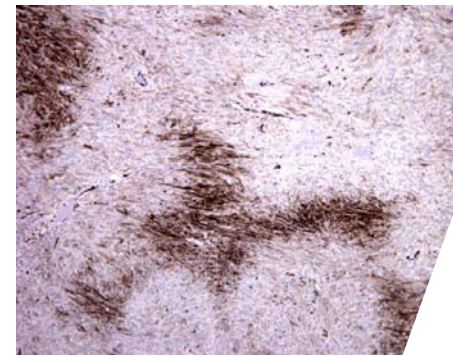
SMA - Liver

Liver section has been stained using SMA optibody (BS66) with 1:200 dilution. Endothelial cells of sinusoids and portal area have strongly stained without staining of the bile ducts.



SMA - Leiomyoma

Leiomyoma section has been stained using SMA optibody (BS66) with 1:200 dilution. All the neoplastic cells have moderate to strong staining reaction without background staining.



SMA - Gastro intestinal stromal tumor (GIST)

GIST-section has been stained using SMA optibody (BS66) with 1:200 dilution. GIST cells have heterogeneous staining pattern.

Somatostatin

Cat#: BSH-7849-100 100ul, BSH-7849-1 1ml

Clonality: Mouse monoclonal antibody

Clone: BS16

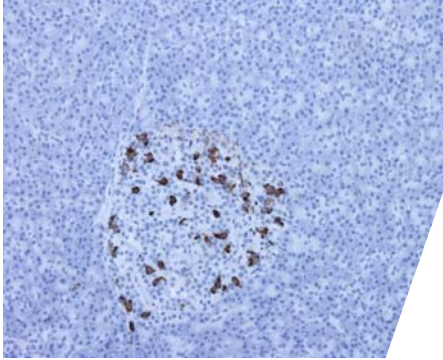
Application: IHC-P

S/R: Human

Control tissues: Pancreas

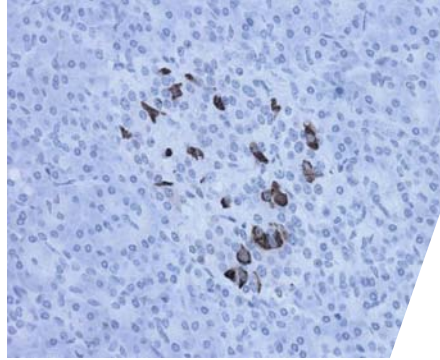


The preproprotein encoded by this gene. Somatostatin is expressed throughout the body and inhibits the release of numerous secondary hormones by binding to high-affinity G-protein-coupled somatostatin receptors. This hormone is an important regulator of the endocrine system through its interactions with pituitary growth hormone, thyroid stimulating hormone, and most hormones of the gastrointestinal tract. Somatostatin also affects rates of neurotransmission in the central nervous system and proliferation of both normal and tumorigenic cells.



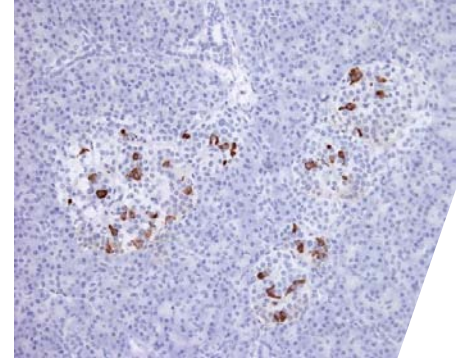
Somatostatin - Pancreas

Pancreas section has been stained using somatostatin antibody (Clone: BS16) with 1:200 dilution. Somatostatin secreted delta cells of pancreas have strong cytoplasmic label.



Somatostatin - Pancreas

Pancreas section has been stained using somatostatin antibody (Clone: BS16) with 1:200 dilution. Somatostatin secreted delta cells of pancreas have strong cytoplasmic label.



Somatostatin - Pancreas

Pancreas section has been stained using somatostatin antibody (Clone: BS16) with 1:200 dilution. Somatostatin secreted delta cells of pancreas have strong cytoplasmic label.

SOX10

Cat#: BSH-7959-100 100ul, BSH-7959-1 1ml

Clonality: Mouse monoclonal antibody

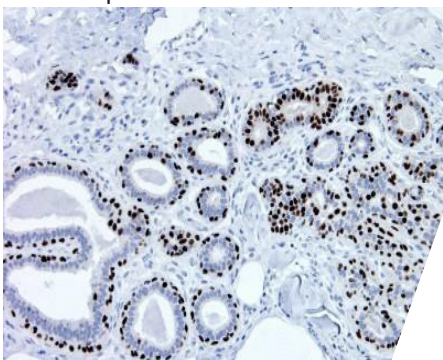
Clone: BS7

Application: IHC-P

S/R: Human

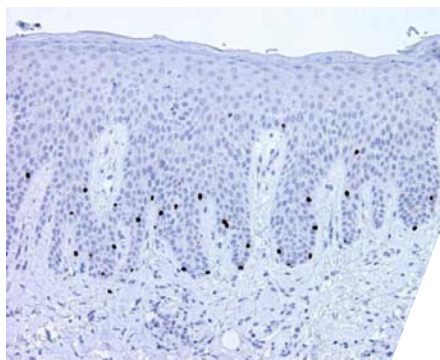
Control tissues: Breast (benign), skin, appendix

This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional activator after forming a protein complex with other proteins. This protein acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development. SOX10 is important and sensitive marker of melanoma especially for spindle cell and desmoplastic melanomas and schwannian neoplasms.



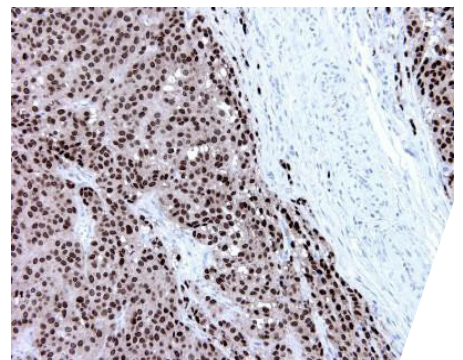
SOX10 - Breast (benign)

Breast section has been stained using SOX10 antibody (Clone: BS7) with 1:200 dilution. Myoepithelial cells of breast have strong nuclear label.



SOX10 - Skin

Skin section has been stained using SOX10 antibody (Clone: BS7) with 1:200 dilution. Melanocytes have strong staining reaction.



SOX10 - Melanoma

Melanoma section has been stained using SOX10 antibody (Clone: BS7) with 1:200 dilution. Melanoma cells have strong nuclear label.

Synaptophysin

Cat#: BSH-7385-100 100ul, BSH-7385-1 1ml

Clonality: Mouse monoclonal antibody

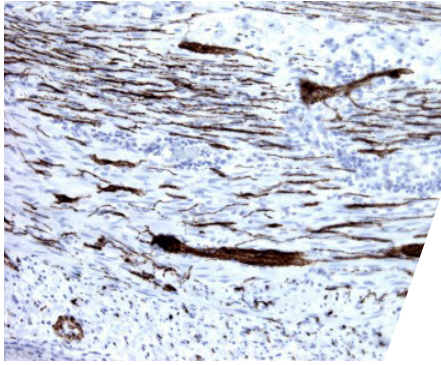
Clone: BS15

Application: IHC-P

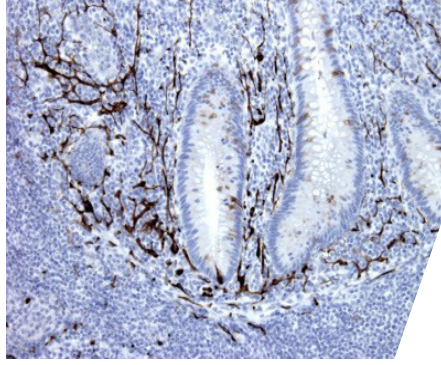
S/R: Human, rabbit, rat, mouse, pig, sheep

Control tissues: Appendix, pancreas

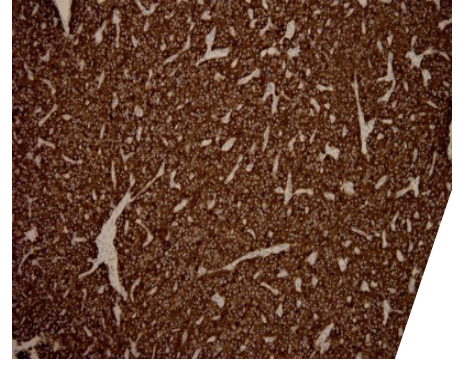
Synaptophysin (p38) is an integral membrane protein of small synaptic vesicles in brain and endocrine cells. Synaptophysin contains four transmembrane domains that form a hexameric channel or gap junction-like pore. Synaptophysin binds to the SNARE protein synaptobrevin/VAMP, which prevents the inclusion of synaptobrevin in the synaptic vesicle fusion complex and creates a pool of synaptobrevin for exocytosis when synapse activity increases. Synaptophysin is also responsible for targeting synaptobrevin 2/VAMP2 to synaptic vesicles, a critical component of the fusion complex.



Synaptophysin - Appendix
Appendix section has been stained using Synaptophysin antibody (Clone: BS15) with 1:300 dilution. Ganglion cells and neuronal axons stained strongly.



Synaptophysin - Appendix
Appendix section has been stained using Synaptophysin antibody (Clone: BS15) with 1:300 dilution. Ganglion cells and neuronal axons stained strongly.



Synaptophysin - Neuro endocrine tumor
Neuro endocrine tumor section has been stained using Synaptophysin antibody (Clone: BS15) with 1:300 dilution. Neuroendocrine tumor cells have intensive staining reaction.

Vimentin

Cat#: BSH-7100-100 100ul, BSH-7100-1 1ml

Clonality: Mouse monoclonal antibody

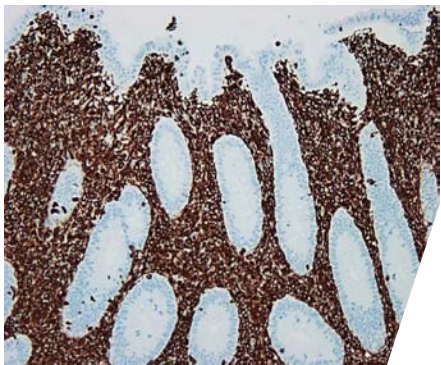
Clone: BS13

Application: IHC-P

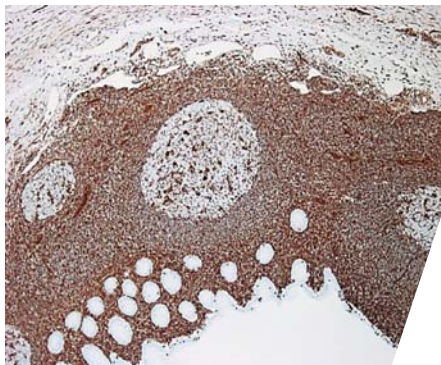
S/R: Human, sheep

Control tissues: Appendix, tonsil

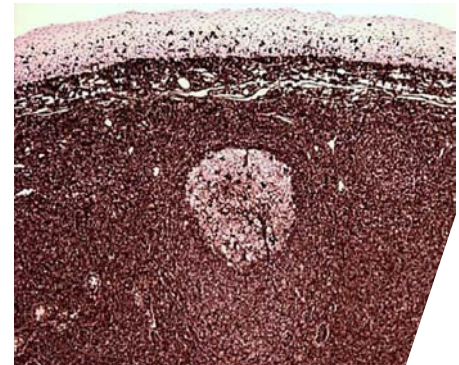
Vimentin is the major subunit protein of the intermediate filaments of mesenchymal cells. It is believed to be involved with the intracellular transport of proteins between the nucleus and plasma membrane. Vimentin has been implicated to be involved in the rate of steroid synthesis via its role as a storage network for steroidogenic cholesterol containing lipid droplets. Immunohistochemical staining for Vimentin is characteristic of sarcomas (of neural, muscle and fibroblast origin) compared to carcinomas which are generally negative. Melanomas, lymphomas and vascular tumors may all stain for Vimentin. Vimentin antibodies are thus of value in the differential diagnosis of undifferentiated neoplasms and malignant tumors. They are generally used with a panel of other antibodies including those recognising cytokeratins, lymphoid markers, S100, desmin and neurofilaments.



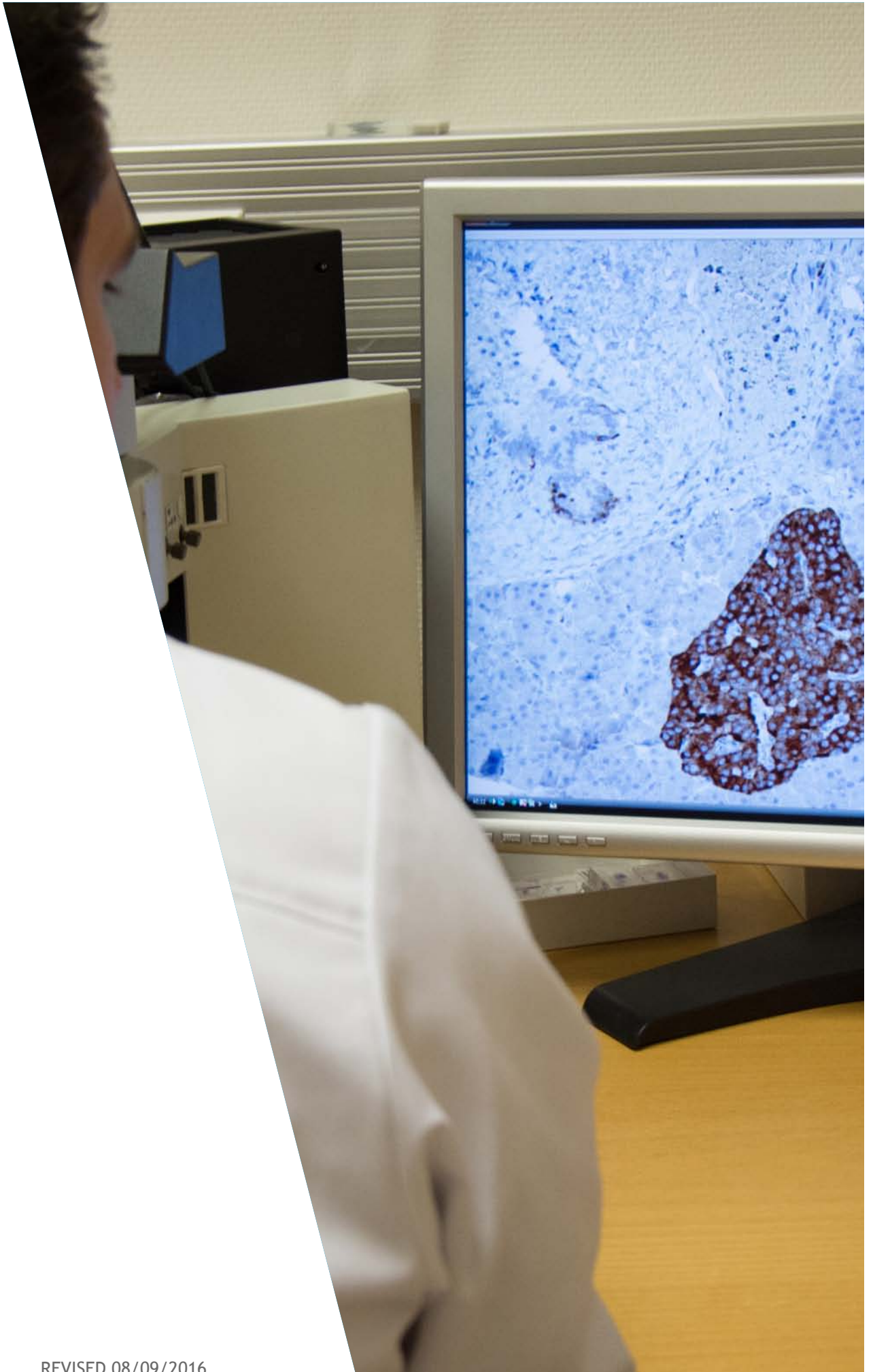
Vimentin - Appendix
Appendix section has been stained using Vimentin antibody (Clone: BS13) with 1:200 dilution. Cells of the mesenchymal origin stained inintensively.



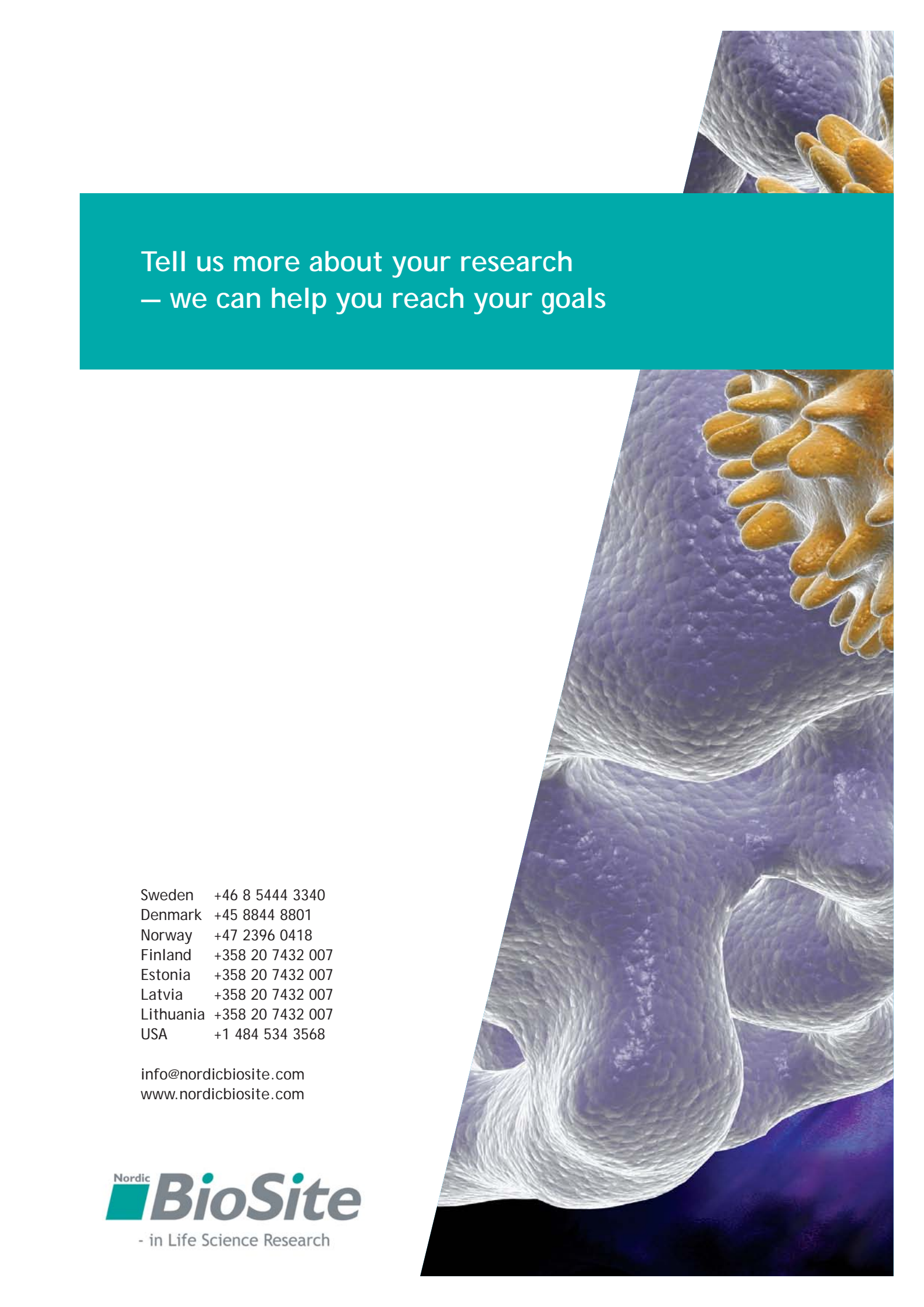
Vimentin - Appendix
Appendix section has been stained using Vimentin antibody (Clone: BS13) with 1:200 dilution. Cells of the mesenchymal origin stained intensively.



Vimentin - Tonsil
Tonsil section has been stained using Vimentin antibody (Clone: BS13) with 1:200 dilution. Cells of the mesenchymal origin stained intensively.



REVISED 08/09/2016

A large, stylized microscopic image of biological cells, possibly a developing embryo or a cluster of cells, rendered in shades of purple, blue, and yellow. The image is positioned on the right side of the page, partially overlapping a teal banner.

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