

A microscopic view of cells, likely B cells, with antibodies (Y-shaped structures) attached to their surface. The image is overlaid with a teal grid pattern in the top left corner. The text 'BIOSYNTH' is positioned in the top right, with a stylized 'T' logo to its left.

BIOSYNTH®

# Custom Antibody Production

Immunogen Design

Polyclonal

Monoclonal

# Custom Antibodies from Biosynth

With over two decades of peptide synthesis and antibody development experience, Biosynth offers complete antibody packages with antigen design, custom peptide synthesis, conjugation, immunizations, affinity purification, and more. Our antibody services are backed by unmatched customer service and technical support, and our contract facilities are fully accredited.

## Our Design Philosophy

More than anything else, the initial design of a peptide antigen has the greatest influence on the ultimate success of any project. Our methods for performing this have been consistently recognized as the most thorough in the industry. We perform a complete bioinformatics study of each target protein that includes a review of specificity, antigenicity, surface accessibility, protein mimicry, binding events, and the potential presence of post-translational modifications, all of which can play a part in how well an antibody will be able to bind your protein of interest.



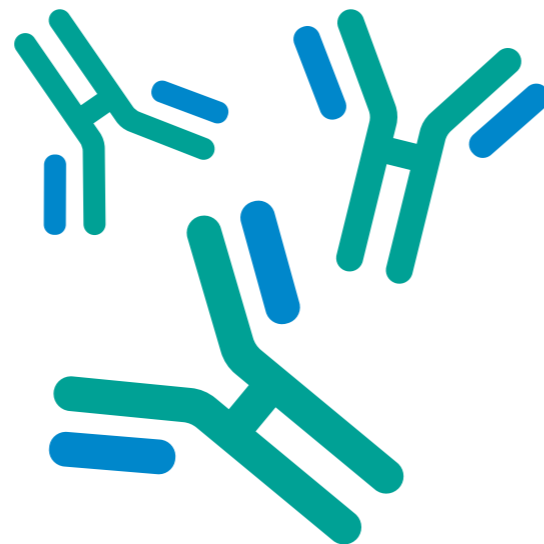
Specificity – Antigenicity – Structure – Impediments to binding

# Custom Monoclonal Antibodies

We offer custom monoclonal antibody production. For mouse monoclonals, this service is broken down into the typical multi-phase development strategy for flexibility purposes.

- Phase I: Immunization
- Phase II: Fusion / Initial Selection
- Phase III: Sub-cloning
- Phase IV: Production

We currently offer both mouse monoclonal and our recently launched rabbit monoclonal antibody development programs. This new service uses B-cell cloning. Contact us to find out more.



[antibody@biosynth.com](mailto:antibody@biosynth.com)

# Custom Polyclonal Antibodies

We offer a variety of polyclonal antibody production packages, with flexible options:

- Rabbits are the industry standard for polyclonal antibody production, but we can also offer this service in several other species (chicken, goat, guinea pig, hamster, among others - contact us for a complete list of options).
- We specialize in making highly specific antibodies to multiple types of post-translational modifications, including phosphorylation, methylation, acetylation, cleavage-site, and more.
- If you require a rabbit monoclonal antibody, we can proceed directly to this from an existing polyclonal via B-cell sorting.
- We use special protocols to make clean, specific antibodies to tryptic fragment peptides.
- Customization of our existing protocols is possible (number of animals, length of immunization schedule, etc.). Discuss your project needs with us for a flexible approach.

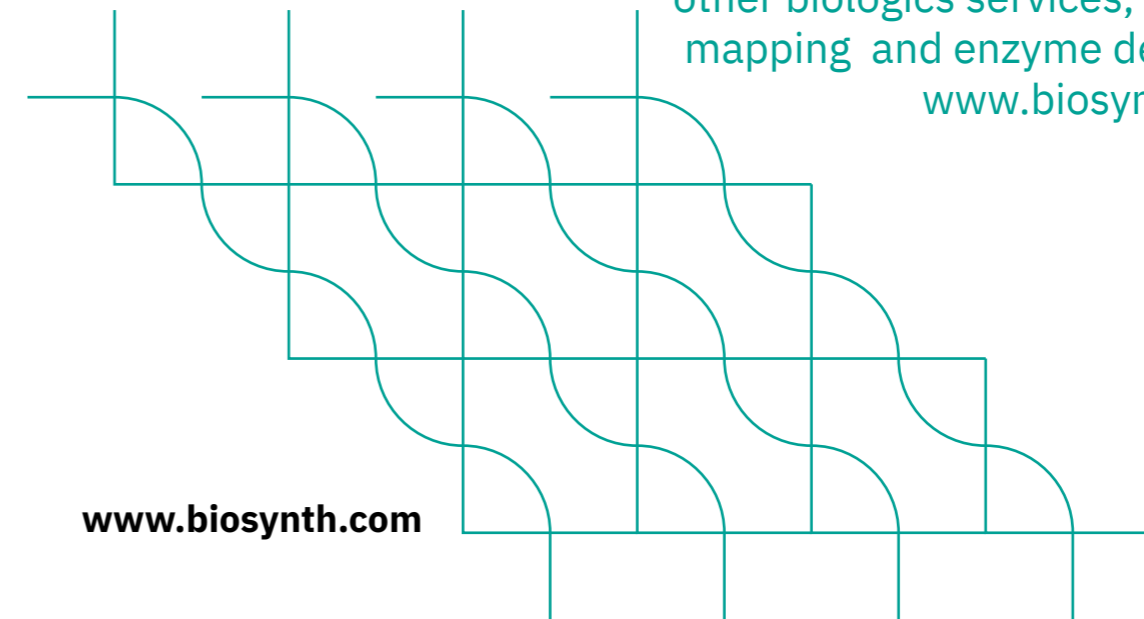
## Standard Rabbit Package

All of our offerings are based on our Standard Package, which includes:

- Antigen design/ Bioinformatics
- 5 mg uncoupled peptide sent to customer, 4 mg coupled to KLH, 1 mg for ELISA
- Three immunizations of two rabbits (New Zealand White - SPF)
- 5 mL pre-immune serum per rabbit
- Two production bleeds (40-50 mL antiserum) per rabbit
- ELISA on 1st production bleed

Most of our customers also add affinity purification, which helps to remove potential background signals across multiple application types.

For more information on our antibody and other biologics services, including epitope mapping and enzyme development, visit [www.biosynth.com/biologics](http://www.biosynth.com/biologics)



[www.biosynth.com](http://www.biosynth.com)

# TB



## Global Locations

Switzerland  
United Kingdom  
Slovakia  
India

United States  
China  
Ireland  
South Korea

The Netherlands  
Austria  
Japan

## About Biosynth

Securing Life Sciences Supply Chains - where Chemistry meets Biology, Products meet Services and Innovation meets Quality, Biosynth is at the Edge of Innovation.

With an unrivaled research product portfolio of over half a million products and end to end manufacturing services, we are science led and customer focused to solve problems, taking pride in delivering products and projects that others cannot. Our expertise and capability runs across Complex Chemicals, Peptides and Key Biologics all from one trusted partner.

[antibody@biosynth.com](mailto:antibody@biosynth.com)

[www.biosynth.com](http://www.biosynth.com)