

Monoclonal Antibody Service

Exclusive Premium

Our UK antibody services team at Biosynth, has provided an effective custom monoclonal antibody production service to the life-science community since 2007. We have our own cell-culture suite on site and can provide samples to test, instant data and detailed progress reports.

Generating Antibodies in Perpetuity

Monoclonals offer many advantages over traditional polyclonals:

- Y The antibody generated is available in perpetuity due to the immortal nature of the cell line
- Y Monoclonal antibodies have a defined specificity and a low non-specific activity
- Y They are ideal for low abundance antibodies, such as IgM
- Y Positive & negative screens can be performed to improve the specificity of the antibody
- Y Multiple cell lines can be purchased by the customer
- Y Monoclonal antibodies offer reproducibility and traceability



Project Design

- Expert advice on the vital first step of antigen selection from either your target protein, peptide sequence or antigen of choice
- Design of screening strategy to select for clones against specific PTMs or protein regions
- Choice of appropriate species (mouse, rat, rabbit)

Optimised Strategy

- Extended immunisations to achieve optimum titre prior to cloning
- Development of screening assay to identify the best clones
- Multiple sub-cloning to capture stable cell lines
- Scalable production and purification capacity

Customer Support

- Regular progress updates and technical assistance
- Defined checkpoints for project progression
- Written reports available at end of each phase
- Back-up freezing of sub-clones and final cell line

1,000
Cultures

20
Positive
Cultures

4 IgG
Secreting
Cultures

1-2
Clones

10ml
Supernatant

Scan now to order



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BIOSYNTH®

Key to our success

Expert Project Design and Optimised Strategies

At Biosynth, we offer a comprehensive Monoclonal antibody service which follows our successful four-phase project outline:

Exclusivity:

- ✔ Customer retains all I.P. for clones purchased
- ✔ Client confidentiality ensured

Premium service includes:

- ✔ Online project tracking facility available
- ✔ Close involvement with the project
- ✔ Technical support at every stage
- ✔ Expert advice on antibody progression upon completion:
2 stable cell lines
10ml supernatant of each antibody

Additional services:

- ✔ Multi-screening is available at all phases upon request
- ✔ Supernatant samples are available to purchase at phases II and III for testing purposes
- ✔ Option to purchase additional stable clones
- ✔ Back-up storage available for phase I (splenocytes); phase II (cultures) and phase III (clones)

Phase IV (optional):

- ✔ Scale-up & purification if requested

Phase 0 Pre-immunisation (2-4 weeks)

1. Peptide selection
2. Peptide synthesis / protein antigen provided
3. Conjugation

Phase I Typical Immunisation Protocol

1. 4-5 Balb/c female mice immunised for suitable titre
2. Analysis of sera to evaluate best immune response
3. Best responding spleen taken forward to phase II

Phase II Fusion

1. Spleen cells showing highest specific antibody titre fused to immortalised cell line
2. Cultures screened by ELISA or western blot analysis
3. Selection of cultures displaying desired specificity
4. Report to client

Phase III Sub-cloning

1. Positive clones are expanded and frozen
2. Frozen clones transferred to client
3. Supply of 10ml supernatant
4. Report to client

10 – 12 weeks
4 – 6 weeks
4 – 6 weeks
5 – 6 months

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