

Monoclonal Antibody Service

Cost Effective Projects with Non-Exclusivity

Custom Monoclonal Antibody Service

Biosynth provides a comprehensive and cost-effective procedure for producing a defined monoclonal antibody comprising:

- Analysis of sera to determine best responder for Phase II Splenocyte fusion and 480 cultures screened by ELISA
- 10 positive cultures selected and expanded from 96 to 24 welled plate and rescreened by ELISA
- ¥ 1-2 positive cultures taken forward to Phase III
- 1 stable positive cell line and 5ml supernatant to customer

Antigenic Prediction Service:

Selection of immunogenic peptides from target protein sequence

- Option 1: without cross reactivity screening
- · Option 2: with cross reactivity screening

Immunisation Schedule: (Phase I)

Day -21	Peptide and conjugate preparation
Day 0	Pre-immune; Immunisation 1
Day 14	Immunisation 2
Day 28	Immunisation 3
Day 42	Immunisation 4
Day 45	Test Bleed 1 (1ml)
Day 76	Splenic injection on best responder
Day 79	Initiate Phase II (spleen extraction)

Additional Services:

- Additional Clone
- Cell Line Storage (Cryopreservation)
- Isotyping or Mycoplasma Testing
- Splenectomy and Cryopreservation

500 Cultures

10 Positive Cultures 2 IgG Secreting Cultures

1 Clone

5ml Supernatani

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Monoclonal Antibody Service

Reduced for Non-Exclusivity

Non-Exclusivity:

- ₩ I.P. rights negotiable
- Collaborations sought
- W Buy-back scheme available
- W Royalties stream for future income

Reduced package includes:

- Antigen design
- Customer Interface
- Progress Reports
- √ Optimisation
- Discount for multiple projects

Timescales and details:

Phase 0

Pre-immunisation (2-4 weeks)

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

Phase I Typical Immunisation Protocol

- 1. Four Balb/c female mice immunised until suitable titre for fusion obtained
- 2. Analysis of sera
- 3. Evaluation of immune response
- 4. Report to client

Phase II Fusion

- 1. Spleen cells showing highest specific antibody titre fused to immortalised cell line
- 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 5ml supernatant
- 4. Report to client

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6 weeks6 months

4

-12 weeks

10

– 6 weeks—