

Monoclonal Antibody Production

SPECIES: *Balb/c mice, 6-weeks-old.*

ANTIGEN: *Typically proteins and conjugated peptides. The typical amount of antigen used for each immunization is 100µg. However, we have successfully used 25µg antigen/immunization to sufficiently produce good hybridomas.*

STEP I: Immunization program of 4 Balb/c mice

- *Immunization and boosts in 4 Balb/c mice*
- *Blood samples are taken from the mice*
- *ELISA tests on serum to check titer against antigen*
- *Serum samples are sent to customer for further testing*
- *Priority among the mice is set by customer*

STEP II: Production of hybridoma of selected mouse/mice

- *Spleenocytes and myeloma cells are fused*
- *Hybridoma clones are screened with ELISA*
- *Cell supernatants from up to 10 positive hybridoma clones are sent to customer for evaluation*

STEP III: Subcloning of selected hybridoma

- *When the customer has selected the preferred hybridoma clones, we will subclone three (or more) hybridomas*

STEP IV: Expansion of hybridoma and purification of antibodies

- *Expansion of hybridoma (1000 mL)*
- *Purification of monoclonal antibodies with protein G*
- *Hybridoma and purified antibodies are sent to customer*

FREE CONSULTATION

We offer free consultation throughout the antibody production. As every project is unique, we work you through all the alternatives so that the production fits your needs in regards to amount of antibody needed, production steps, and hybridoma selection.

DOCUMENTATION

Project reports are generated continuously throughout the process of the monoclonal antibody production. In the documents we report, in detail, events carried out and scheduled events.

THE STANDARD SCHEDULE

Week 0	Consultation (Receiving antigen)
Week 1-14	STEP I Immunization of Balb/c mice
Week 15	ELISA result and serum samples sent to customer
Week 16-19	STEP II Production of hybridoma
Week 20	Cell supernatants of hybridoma are sent to customer
Week 21-23	STEP III Subcloning of selected hybridoma
Week 24-27	STEP IV Expansion of hybridoma and Purification of antibodies
Week 28	Hybridoma and monoclonal antibodies are sent to customer