

Antibody Development Custom Services

DEVELOP ANTIBODIES WITH SPECIFIC ASSAY GOALS IN MIND

Develop antibodies screened for performance.

A custom strategy is the key to ensuring the best performing antibodies for any application.

BBI Solutions offers expert partnership in the development of monoclonal or polyclonal antibodies, cGMP antibody production and purification services. An industry leading advantage, 'MultiPure' allows customers to see assay performance data eight weeks sooner than typical developments and use that data to inform clone selection.

The experience to anticipate customer needs.

Immunoassay goals have evolved and become more complex in recent years; there is no substitute for the experience to identify project risks. A project initiation meeting gives customers an opportunity to define specific assay goals and gain insight from the experience of the technical team, on the best approaches to challenging antibody applications, including IVD assays, anti-idiotypic projects, biomarker discovery and anti-drug assay (ADA) requirements.

Polyclonal antibody development can be seamlessly integrated into a monoclonal project plan when the goal of having a matched pair is defined, or if ADA reagents are required.

Key benefits



+ Antigen Analysis

Option to receive a custom report, prepared by an immunologist, to identify the right antigen strategy for any goal



+ Detailed Project Plan

Identify goals, reagents, screening strategies and set contingency plans to ensure timely development



+ MultiPure

Generate up to 1mg discovery-grade purified antibodies from fusion candidates during hybridoma development to select clones based on end use performance



+ Characterisation Assays

Characterise antibody candidates beyond standard indirect ELISA screening, so only the right antibodies go to subcloning



+ Technical Support

Hands on support from project managers, technical sales team and immunology experts at every project milestone

Development & production

- + Hybridoma development
- + Polyclonal antibody development
- + cGMP *in vitro* production

Purification

- + Protein A purification
- + Antigen affinity purification
- + SEC polishing
- + Low endotoxin purification

Characterisation

- + ELISA
- + Western Blot
- + SDS-PAGE
- + Isoelectric Focusing (IEF)
- + Endotoxin testing
- + Matched pair evaluation
- + SEC

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Accelerate Timelines

Timely development is a high priority for most antibody development customers. Thorough project planning, rapid immunisation protocol (RIMMS), and efficient data analysis at every project milestone, work together to accelerate project timelines. When goals change during the course of development, planning and communication allow BBI to be agile in making decisions and change the pathway to allow a project to be kept on track, meet new goals, and get the right result quicker.

A typical project plan*

	1-2 WEEKS	4 WEEKS	2-3 MONTHS		6-8 WEEKS	1-2 WEEKS	
PHASE	Planning	Immunisation	Fusion	General Discovery Reagents	Advanced Screening	Subcloning & Production	Monoclonal Assays
ACTIVITY	Antigen review Project planning	RIMMS protocol Serum screening	Primary screening Scale-up and cryopreservation of fusion product selections Secondary screening	MultiPure technology offers novel early access to purified samples	Matched pair evolution Blocking assays Matrix evaluation	Top-ranked fusion products subcloned Monoclonal cell line cryopreservation cGMP <i>in vitro</i> production	Analytical characterisation of antibody(s) Fit-for-use performance evaluation
DELIVERABLES	+ Antigen analysis report + Project plan	+ Serum titre data + Boosting strategy (if needed)	+ Screening data + Banked cryo-vials + Supernatant	+ Discovery-scale purified antibody + Biotin-labelled conjugates (optional)	+ Advanced screening report + Subcloning candidates identified	+ Screening data + Assessment of stability + Pilot production recommendations	+ Screening data + Assessment of stability + Performance characterisation report summary

*representative

What you can expect from BBI

Advanced screening capabilities

'MultiPure' allows customers to select clones based on specificity, sensitivity, matched pair compatibility, matrix compatibility, diversity and native recognition.

Knowledge and experience

The antibody technical team brings over 27 years of deep expertise in immunology, antibody and immunoassay development to every project.

cGMP manufacturing standards

cGMP *in vitro* antibody manufacturing and custom production options to secure long term supply management.

Unparalleled customer communication

Customers are informed at all project stages of the data and analysis they need to make goal driven decisions.

Contact BBI Solutions today to develop the right antibodies for any application

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