



LAMPIRE Biological
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Advanced Monoclonal Screening

Antibody Services

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Advanced Monoclonal Screening

Overview

LAMPiRE's Advanced Monoclonal Screening platform provides a comprehensive solution for antibody characterization, supporting rapid identification of high quality monoclonal candidates. By integrating advanced instrumentation with customizable assay design, we generate actionable data to guide antibody selection and downstream development.

Platform Advantages

Our screening approach evaluates antibodies across binding affinity, kinetics, epitope mapping, and functional performance. This multi dimensional analysis provides a deeper understanding of antibody behavior, enabling confident lead selection and reducing risk during downstream development.

→ Why Choose Us?

- Trusted experts in advanced antibody screening
- Strategic focus on efficiency: evaluating selected clones without building massive libraries
- Proven ability to translate screening data into downstream efficacy and functional insights.
- Flexible and tailored approach to meet specific program goals
- Collaborative scientific support that helps clients make faster, smarter decisions

Capabilities

Target Binding & Functional Analysis

Evaluate antibody binding to target overexpressing cells compared to appropriate controls, generating precise comparisons of EC50 measurements to support confident lead selection. On cell studies confirm target binding, internalization, and functional activity through customized assay designs. These studies help identify antibodies with the strongest biological relevance and reveal early indicators of functional performance during discovery programs.

Kinetic Characterization

Determine KD values and rank high affinity binders through off rate analysis or full kinetic measurements. Using industry standard SPR and BLI instrumentation, including Biacore SPR T200 and Octet systems, LAMPiRE generates reproducible kinetic datasets that characterize association and dissociation behavior. These insights help prioritize antibodies with optimal binding properties for downstream development.

Epitope Binning & Differentiation

Perform bi directional matrix competition assays to identify antibody competition groups and non competing binding pairs. Epitope mapping strategies using known or published antibodies help refine development strategy and improve understanding of target engagement.



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