

Discovery-Line Services

Monoclonal Antibody Development

- Cost Effective
- High-Quality Antibodies
- Peptide Synthesis Available
- Get Started for \$1250

Discovery-Line Hybridoma Program

Phase I: Project Design & Immunization

- Each project begins with a Scope of Project meeting between you and our technical staff in an effort to assure the success of your project.
- Mice* or rats are then immunized according to the schedule below and titer is monitored by ELISA until sufficient titer is reached to warrant fusion between mouse spleen cells and an immortal, non-secreting myeloma cell line.

Day	Procedure
1	Pre-bleed and first injection
28	Second injection
38	First test bleed

(Note: Subsequent injections and test bleeds, if required, will be performed only after consultation with our technical staff.)

Phase II: Cell Fusion

- After candidate animals are selected, the number of required fusion plates is determined, and the fusions are performed. Fusion plates are screened by ELISA to identify hybrid cell lines that produce antigen specific antibody.
- Several fusions may be required to obtain a hybrid cell line that produces the desired antibody. Fusion candidates will be approved by the client before the fusions are performed and charges are incurred.

Phase III: Cloning

- Positive cell lines from Phase II will be expanded to produce sufficient culture to preserve the parent cell line and to subclone the identified positives by limiting dilution. Typically 3 cell lines are chosen for Phase III, but this number can be increased based on client requirements. The expansion culture of the selected positive cell lines will be preserved in liquid nitrogen.
- Up to fifteen (15) additional positive cell lines may be cryopreserved individually at LAMPIRE or up to 100 may be cryopreserved as pools. These cell lines may also be shipped to you if requested.
- Recloning of selected positives will be performed as needed to achieve antibody production stability. Clones must exhibit >95% antigen-specific antibody production to be considered stable.

* Unless otherwise indicated, female Balb/C mice are used for all hybridoma projects.
Antigen required: 0.1-0.5 mg/injection/animal.

Pricing Schedule

Phase I: Design & Immunization	5 Mice	\$1,250
	10 Mice	\$1,500
	3 Rats	\$2,000
Phase II: Cell Fusion	Mouse - Single Antigen	\$3,750
	Mouse - Double Antigen	\$4,250
	Rat - Single Antigen	\$4,500
	Rat - Double Antigen	\$5,000
Phase III: Cloning	Mouse - Per Clone, Per Round of Subclone - 1 Antigen	\$300
	Mouse - Per Clone, Per Round of Subclone - 2 Antigens	\$450
	Rat - Per Clone, Per Round of Subclone - 1 Antigen	\$400
	Rat - Per Clone, Per Round of Subclone - 2 Antigens	\$550

Additional Services

- Custom Peptide Synthesis
- Antigen Conjugation to KLH or BSA
- Antibody Purification
- Antibody Isotyping
- ELISA Screening
- Cell Bank Storage

Lampire's **Discovery-Line Services** are designed to meet the needs of academic and industry scientists alike. We begin with thorough biochemical and biological analysis of your antigen, then we develop and recommend a protocol for your review. After approval, we begin immunizations and titer screening, keeping you informed at each step of the process. Fusions, cloning, and subcloning then follow, only after your review and approval.

Try our **Select-Line Services** for antibody production of established hybridoma cell lines in roller bottles, ascites, or the Lampire Cell Culture Bag

For more information visit us on the web at www.lampire.com.

To get your project underway, call us at **215.795.2838** or email us at lampire@lampire.com

For complete product and services offering, to place an order, or for more information visit us at www.lampire.com, call us at **215.795.2838** or send an e-mail to lampire@lampire.com

