



LAMPIRE
BIOLOGICAL LABORATORIES

45 YEARS **STRONG**

Hybridoma

Development



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LAMPIRE's Monoclonal Department offers high-quality hybridoma development at a very affordable price. Designed to meet the needs of both industry and academic scientists, each project begins with a FREE Antigen Design and a series of Project Scope & Definition Meetings. Projects are divided into three phases, each with its own billing cycle to spread your costs out over the course of the project. A description of each phase is presented below.

Free Antigen Review

Please take advantage of our FREE Antigen Design and Protocol Review. Without obligation, we will set-up a meeting for you with our scientific staff to discuss your project. We will provide you with an estimate of project feasibility, animal model, timelines and costs. To begin your discussion, please contact projman@lampire.com or call 215-795-2838.

Phase I: Project Design and Immunization

Each project begins with a Project Scope meeting between you and our technical staff in an effort to assure the success of your project. Upon antigen arrival, animals are then immunized, according to the approved protocol and titer is monitored by ELISA until sufficient titer is reached to warrant fusion between spleen cells and an immortal, non-secreting myeloma cell line. Note: Any 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.

Get Started!

Some or all of the following forms are required to get your Monoclonal Antibody project started. Please contact our Project Management Team at projman@lampire.com or call 215.795.2838 to help determine which forms you need or for assistance filling them out.

THE LAMPIRE ADVANTAGE!

- ✓ **Experienced** technical partner with over 44 years servicing the life science industry
- ✓ **Knowledgeable** and responsive sales / customer service staff
- ✓ **Competitive** pricing, from research sized to bulk quantities
- ✓ **Customizable** products available to meet your specifications