

IMMUNOCHEMISTRY SERVICES *effective March 2008*

ASSISTANCE IN PEPTIDE SEQUENCE SELECTION, including CUSTOM PEPTIDE SYNTHESIS and CONJUGATION

PRF&L uses computer algorithms to predict antigenic regions within an amino acid (or translated DNA) sequence, for customers interested in anti-peptide antibody production. The customer will receive multiple antigenic peptide sequences corresponding to the optimal antigenic domains; the pI, MW, and calculated peptide charge for each sequence. Also included in this service are strategies for the bioconjugation to larger carrier proteins and suggested antibody host(s). 10 to 15mg of peptide will be produced at purity greater than 80 percent. Up to 4mg will be conjugated to KLH for immunizations.

\$949 for first peptide produced

\$799 for each additional peptide produced

CUSTOM PEPTIDE SYNTHESIS and CONJUGATION for Customer Designed Peptides

10 to 15mg of peptide will be produced at purity greater than 80 percent for peptides up to 15 amino acids. Up to 4mg will be conjugated to KLH. Peptides should have a cys amino acid at either end. — **\$549 per peptide**

Each additional amino acid between 16 and 25—**add \$22**

For peptides without a cys at the end—**add \$46**

OPTIONS for PEPTIDE SYNTHESIS

Increase purity to 85 percent—**add \$99**

Increase purity to 90 percent—**add \$175**

Increase purity to 95 percent—**add \$275**

Increase amount of peptide to 15 to 20mg—**add \$4 per amino acid**

Conjugation to second carrier 2mg—**add \$165**

PRF&L outsources peptide synthesis to one select, high quality, reputable supplier. Pricing can vary depending on sequence. Sequences over 25 amino acids are custom quoted. Peptide modifications are available. Price includes HPLC and Mass Spec reports.

ADVANCED POLYPEPTIDE CHARACTERIZATION SERVICE

This "consultation fee" based service is available to provide a more detailed polypeptide evaluation. Peptide domains selected for the project may be "modified" in the cells of the organism. A summary of any specific domains, points of post-translation modifications or protease or cleavage sites, may indicate a necessity to select another peptide sequence. **Our goal is to produce anti-peptide antibodies that are functional in the final assay.** Additionally with this service, you can request a complex homology sequence analysis between family proteins from different or same species. These analyses are used when the goal of the antibody project is to produce a Unique or a Common domain-specific antibody. Here customers can maximize their antibody usage in evaluating the expression of all or each of the target family proteins. Please call for additional information and pricing on this service.

CONJUGATION OF PEPTIDES, POLYPEPTIDES, & SMALL MOLECULES - by sequence specific methods for Customer Supplied Peptides / Antigens

\$295 for Conjugation of up to 4mg of antigen to KLH, BSA, OVA, albumin, or thyroglobin. All conjugation reactions are checked for percent incorporation.

\$195 for Conjugation of same antigen to an additional carrier, ordered at the same time.

\$55 for each additional mg over 4mg conjugated at the same time.

Depending upon sequence, additional charges may apply

ESTIMATING ANTIBODY TITERS by ELISA

[Enzyme Linked ImmunoSorbant Assay]

Generally, a minimum of two bleeds are tested; the desired sample along with either the preimmune or previous immune bleed. PRF&L will always normalize to either the preimmune or a previously tested immune bleed unless requested. All ELISAs are performed in duplicate. Note: For anti-peptide antibody projects, the peptide needs to be conjugated to a protein carrier that differs from the protein carrier used in the immunization protocol.

\$85 for the first bleed tested

\$45 for each additional bleed tested

PURIFICATION OF IgY—Egg Yolks

IgY will be purified from egg yolks by the polyethylene glycol precipitation method, which then can be followed by Affinity Purification.

\$200 for first 4 egg yolks

\$20 for each additional yolk per batch

Egg prescreening for maximum antibody yield option available.

PURIFICATION OF IgG by Protein A or G

IgG will be purified from serum or plasma. Price is per batch. Price is based on the volume of sera / plasma processed.

Up to 5ml	\$100	101 to 250ml	\$525
6 to 20ml	\$310	251 to 500ml	\$685
21 to 50ml	\$415	501 to 1000ml	\$975
51 to 100ml	\$470	Isolated on species specific columns.	

AFFINITY PURIFICATION OF ANTIBODIES

Antigens are covalently linked to Affinity Matrices with minimal steric hindrance orientation, via sequence specific bio-conjugation chemistry. Where necessary, optimal binding conditions are determined to enhance antigen-antibody binding and subsequent antibody yield. Price is based on the volume of sera / plasma processed.

	Initial Purification	Repeat Purifications
Up to 25ml	\$295	\$220
26 to 50ml	\$450	\$375
51 to 100ml	\$595	\$500
Over 100ml	\$595 + \$2.65 per ml for initial purification	
Over 100ml	\$500 + \$2.65 per ml for repeat purification	

Final yield of purified antibodies depends on titer.

ADDITIONAL SERVICES OFFERED:

Please call for additional information and pricing.

SDS Polyacrylamide Gel Electrophoresis & Antigen Purification from Gel Page Slices

Western Blot Assay

Custom immunoaffinity column preparation

Enzyme & Tag Labeling

FAB Fragmentation

Recombinant Antibody Related Services:

Total RNA Isolation from B-Cell Tissues & Blood

RNA Sample Archiving

Custom "Phage Display" Library Development

Custom Polyclonal Antibody Production

In-vitro Monoclonal Antibody Production

Hybridoma Development