



Quality Antibody Production Since 1960

Immunochemistry Services Request Form

Pocono Rabbit Farm & Laboratory, Inc.

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Email: antibody@prfal.com Website: www.prfal.com

Contact Name _____ PI Name _____ Institution _____

ANTIBODY PROGRAM DESIGN SERVICE *If possible, PRF&L would prefer to assist customers in creating a custom antibody program that best fits their antibody application. Program includes the computer analysis of primary protein sequences for the determination of highly antigenic domains. Our goal is not to just produce an anti-peptide antibody, but to provide a functional antibody. **NO CHARGE** providing PRF&L has your peptide made and produces your antibodies. Please provide us with your protein sequence in an email so we may analyze your sequence using our computer software.*

CUSTOM PEPTIDE SYNTHESIS *Please write peptide sequence(s) clearly with large block letters.*

PEPTIDE #1: NH₂- _____ -COOH

PEPTIDE #1 ID: *please limit to 10 characters* _____ Total amt needed _____ mg Purity _____ %

PEPTIDE #2: NH₂- _____ -COOH

PEPTIDE #2 ID: *please limit to 10 characters* _____ Total amt needed _____ mg Purity _____ %

CONJUGATION OF PEPTIDES, POLYPEPTIDES, AND SMALL MOLECULES

Please indicate your conjugate choice and amount of peptide to be conjugated. We typically conjugate 1.5mg of free peptide per animal used and 1mg for ELISAs.

KLH _____ mg BSA _____ mg OVA _____ mg Thyroglobin _____ mg Albumin _____ mg Other: _____ mg

INSTRUCTIONS:

ANTIBODY TITRATION BY ELISA

Four bleeds/samples can be titered per plate. 100ug of antigen is needed per plate. Peptides need to be conjugated to a carrier other than was used for immunizations. Preimmune bleed is titered with the first ELISA. Subsequent ELISAs are normalized to previous bleed.

ELISA after first immune bleed.

ELISA the first and second bleed after the second immune bleed.

WESTERN BLOT ASSAY

100ug of antigen, ~molecular weight and concentration are needed.

INSTRUCTIONS:

SDS POLYACRYLAMIDE GEL ELECTROPHORESIS

Sample run under reducing conditions or non reducing proteins are visualized by coomassie blue or silver staining methods. 100ug antigen needed

ANTIGEN PURIFICATION FROM SDS POLYACRYLAMIDE GEL

Customer supplied PAGE (gel slice) embedded protein samples purified by electrophoresis.

Customer supplied mixed protein samples. Protein antigen is size fractionated on SDS PAGE gels, excised, and purified by electrophoresis.

AFFINITY PURIFICATION OF ANTIBODIES

Antigens are covalently linked to Affinity Matrices with minimal steric hindrance, via sequence specific bio-conjugation chemistry. Where necessary, optimal binding conditions are determined to enhance antigen-antibody binding and subsequent antibody yield.

INSTRUCTIONS:

PURIFICATION OF IgG or IgY

IgG will be purified from serum or plasma using Protein A, Protein G, or recombinant protein A/G affinity matrices.

IgY will be purified from egg yolks by the polyethylene glycol precipitation method. Protein concentration will be determined. Egg prescreening for maximum antibody yield option available. Non-PEG alternative methods and antigen specific affinity purification available.

INSTRUCTIONS:

OTHER AVAILABLE SERVICES:

- CUSTOM IMMUNOAFFINITY COLUMN PREPARATIONS
- ENZYME AND TAG LABELING
FITC, DIG, BIOTIN, HRP, ALK PHOS, and Other Tags
- RNA: TOTAL RNA ISOLATION from B – Cell Tissues for all species
- RNA SAMPLE ARCHIVING
- CUSTOM "PHAGE DISPLAY" LIBRARY DEVELOPMENT

FOR PRF&L USE July 2004 Rec'd _____

Customer ID _____ Project ID _____