

Recombinant Protein L

CATALOG #:	6530-1	1 mg
	6530-5	5 mg
	6530-10	10 mg
	6530-100	100 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
SEQUENCE:	Amino acid 98-462 of the Peptostreptococcus Magnus. Protein L Contains 5 kappa-binding domain with 6x His-tag on N-terminus. Gene Bank Accession Number CAA25612.	
PURITY:	>98% by SDS-PAGE. Endotoxin level is <0.1 EU/mg of Protein L.	
MOL. WEIGHT:	43.2 kDa with 5 IgG binding sites	
FORM:	Lyophilized with no additives	
RECONSTITUTION:	Reconstitution in water to a concentration of 5 mg/ml gives a clear solution.	

STORAGE CONDITIONS:

Store at -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freezing and thawing.

APPLICATIONS:

Protein L has the unique ability to bind through kappa light chain interactions without interfering with the antibody's antigen-binding site. This gives Protein L the ability to bind a wider range of Ig classes and subclasses than other antibody-binding proteins. Protein L can be used to detect, quantify and purify antibodies and antibody/antigen complexes. BioVision's Recombinant Protein L contains only IgG binding domains. The albumin-binding domain as well as cell wall and cell membrane binding domains have been removed to ensure the maximum specific IgG binding capacity. The 6-His-tag on N-terminus can be used for affinity purification or protein L detection using anti-His-tag antibodies.

Protein L binds to all classes of Ig (IgG, IgM, IgA, IgE, and IgD). Protein L will also bind Single Chain Variable Fragments (ScFv) and Fab Fragments. Protein L binds kappa I, III, and IV in human and kappa I on mouse.

SPECIFICITY:

Under optimal conditions, 1 mg protein L will bind approximately 5 mg human IgG. Optimal binding of Protein L to antibodies occurs at pH 7.5 over a pH range of 2.5 to 3.0.

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