



Protein L, R-PE conjugate

Cat. No: AX-AP01012R

Introduction:

Protein L was isolated from the surface of bacterial species Peptostreptococcus magnus and was found to bind Ig(IgG,IgM,IgA,IgE and IgD) through L chain interaction. The recombinant protein contains four immunoglobulin (Ig) binding domains (Bdomains) of the native protein. Recombinant Protein L Protein, fused with the polyhistidine tag at N-terminus and a single cysteine at C-terminus. DTT-reduced protein migrates as a 36 to 38 kDa polypeptide.

Phycoethyrin (R-PE): R-PE is a 240 kDa protein from the light-harvesting complex, which is composed of a hexameric structure of alpha and beta chains andphycobilins. R-PE purified from Poryhyratenera. Protein L, R-PE conjugate is a protein labeled by Phycoethyrin.

Formulation: 100 µg of Protein L conjugated with R-PE in PBS.

Excitation Laer: Blue Laser (488 nm)/Green Laser (532 nm)/Yellow-Green Laser (566 nm)

Application: In 0.1 ml PBS	
Immunofluorescence (IF)	1: 50-1:200
Flow cytometry	1: 100-1:500.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Specificity:

Despite this wide-ranging binding capability with respect to Ig classes, Protein L is not a universal immunoglobilin-binding protein. Binding of Protein L to immunoglobulins is restricted to those containing kappa light chains (i.e., k chain of the VL domain). Besides antibody, protein L is also suitable for binding of a wide range of antibody fragments such as Fabs, single-chain variable fragments (scFv), and domain antibodies.

Specification	Purity	A566//	4280 ≥ 5.5	
	A566/A498 ≤1.5			
	Impurity	A620/A566 ≤ 0.005		
Property	1 5			
	Molecular Weight		240 kDa	
	Absorption Maximum		566 nm	
	Emission Maximum		575 nm	
	Extinction Coefficient		1.96 × 106 cm ⁻¹ M ⁻¹	
	Quantum Yie	eld	0.84	