

Version: 02
Update: 07/28/2021

DATASHEET

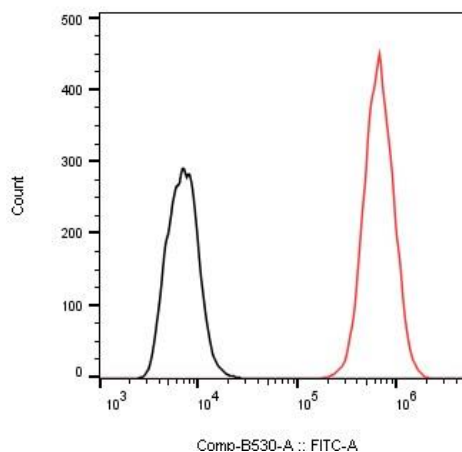
FITC-Protein L

Cat. No.: M00920-500; M00920-1
Size: 500 µg / 1 mg

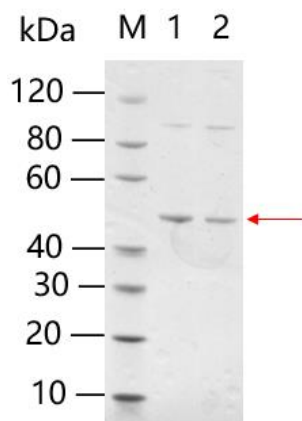
Product Introduction

Species:	Peptostreptococcus magnus
Tag:	His Tag
Conjugate:	FITC
Purity:	> 90% as analyzed by SDS-PAGE
Expression System:	E. coli
Theoretical Molecular Weight:	42 kDa
Apparent Molecular Weight:	~45 kDa, on SDS-PAGE under reducing conditions
Application:	The optimal dilution ratio should be determined by the end user for specific applications. Flow cytometry analysis: 1:100-1:200
Formulation:	Lyophilized from a solution in PBS, pH 7.4, containing 1% BSA and 0.02% sodium azide.
Reconstitution:	Reconstitute the lyophilized powder in deionized water up to 0.5 mg/ml.
Storage & Stability:	Upon receiving, this product remains stable up to 12 months at -20°C or below. Upon reconstitution, the product can be stored for 2-3 weeks at 2-8°C or 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Data Images



VHH expression positive cell line was stained with negative control (black curve) or Protein L labeled with FITC at 5 µg/mL (red curve).



Lane 1: 1 μ g of Protein L, reducing(R)
> 90% as analyzed by SDS-PAGE

Background

Target Background: Protein L is a cell surface protein from *Peptostreptococcus magnus* that binds to the variable light chains (κ chain) of immunoglobulins without interfering with antigen binding. In contrast to IgG-binding proteins, such as protein A and protein G, which bind to the Fc region of immunoglobulins, protein L can be used for the detection and purification of mammalian κ light chain antibodies of all classes. Since no part of the heavy chain is involved in the binding interaction, Protein L binds a wider range of antibody classes than Protein A or G. Protein L binds to representatives of all antibody classes, including IgG, IgM, IgA, IgE and IgD. Single chain variable fragments (scFv) and Fab fragments also bind to Protein L.

Synonyms: RPL; Protein L

References:

1. Björck, L. "Protein L. A novel bacterial cell wall protein with affinity for Ig L chains." *The Journal of Immunology* 140.4 (1988): 1194-1197.
2. Kastern, William, U. Sjöbring, and L. Björck. "Structure of peptostreptococcal protein L and identification of a repeated immunoglobulin light chain-binding domain." *Journal of Biological Chemistry* 267.18 (1992): 12820-12825.
3. Åkerström, B., and L. Björck. "Protein L: an immunoglobulin light chain-binding bacterial protein: characterization of binding and physicochemical properties." *Journal of Biological Chemistry* 264.33 (1989): 19740-19746.

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.