



[Go to Product page](#)

Datasheet for ABIN7013589

Protein L Protein (AA 106-470) (His tag,AVI tag,Biotin)

3 Images

Overview

Quantity:	100 µg
Target:	Protein L
Protein Characteristics:	AA 106-470
Origin:	Peptostreptococcus magnus
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Protein L protein is labelled with His tag,AVI tag,Biotin.

Product Details

Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	Biotinylated Recombinant Protein L Protein, His,Avitag™ (MALS & FACS verified)
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	Protein L
Abstract:	Protein L Products
Background:	Protein L was isolated from the surface of bacterial species Peptostreptococcus magnus and

Target Details

was found to bind Ig(IgG,IgM,IgA,IgE and IgD) through L chain interaction, from which the name was suggested. Despite this wide-ranging binding capability with respect to Ig classes, Protein L is not a universal immunoglobulin-binding protein. Binding of Protein L to immunoglobulins is restricted to those containing kappa light chains (i.e., k chain of the VL domain). In humans and mice, kappa (k) light chains predominate. The remaining immunoglobulins have lambda (l) light chains. The recombinant protein contains four immunoglobulin (Ig) binding domains (Bdomains) of the native protein. 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 (Dabs).

Molecular Weight: 43.7 kDa

Application Details

Application Notes: MALS & FACS verified

Comment: Ready-to-use Avitag™ biotinylated protein:

The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

Handling

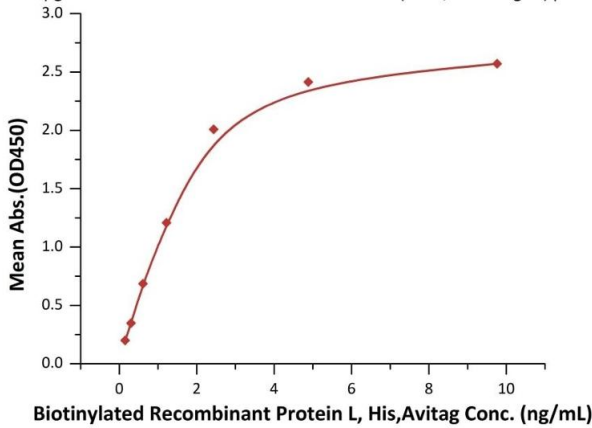
Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C

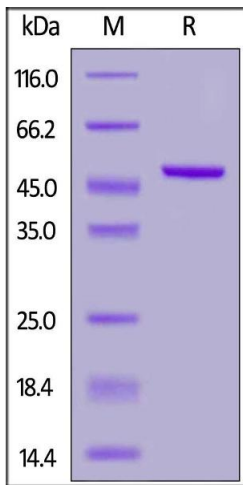
Biotinylated Recombinant Protein L, His,Avitag ELISA

0.2 µg of Mouse Human chimeric Anti-BCMA mAb (Aa01, Mouse IgG1) per well



ELISA

Image 1. Immobilized Mouse Human chimeric A mAb (Aa01, Mouse IgG1) at 2 µg/mL (100 µL/well) can bind Biotinylated Recombinant Protein L, His,Avitag (ABIN6973199) with a linear range of 0.2-2 ng/mL (QC tested).

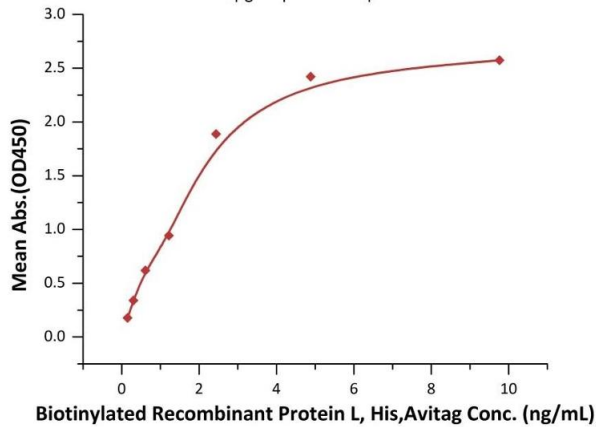


SDS-PAGE

Image 2. Biotinylated Recombinant Protein L, His,Avitag™ on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

Biotinylated Recombinant Protein L, His,Avitag ELISA

0.2 µg of Ipilimumab per well



ELISA

Image 3. Immobilized Ipilimumab at 2 µg/mL (100 µL/well) can bind Biotinylated Recombinant Protein L, His,Avitag (ABIN6973199) with a linear range of 0.2-2 ng/mL (Routinely tested).