

Datasheet for ABIN2181597

PD-L1 Protein (AA 19-238) (His tag,Fc Tag,AVI tag,Biotin)



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3 Images

Overview

Quantity:	200 µg
Target:	PD-L1
Protein Characteristics:	AA 19-238
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PD-L1 protein is labelled with His tag,Fc Tag,AVI tag,Biotin.

Product Details

Brand:	MABSol®,PrecisionAvi
Sequence:	AA 19-238
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries a human IgG1 Fc fragment at the C-terminus, followed by a polyhistidine tag. The Avi tag (Avitag™) is inserted in-between the Fc and his tags. The protein has a calculated MW of 53.2 kDa. The protein migrates as 60-75 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level: Less than 1.0 EU per µg by the LAL method.

Target Details

Target: PD-L1

Alternative Name: PD-L1 ([PD-L1 Products](#))

Background: Programmed cell death 1 ligand 1 (PD-L1) is also known as cluster of differentiation (CD274) or B7 homolog 1 (B7-H1), is a member of the growing B7 family of immune molecules and is involved in the regulation of cellular and humoral immune responses. B7-H1 is a cell surface immunoglobulin superfamily with two Ig-like domains within the extracellular region and a short cytoplasmic domain. PD-L1 is highly expressed in the heart, skeletal muscle, placenta and lung and weakly expressed in the thymus, spleen, kidney and liver. PD-L1 is expressed on activated T-cells, B-cells, dendritic cells, keratinocytes and monocytes. PD-L1 is up-regulated on T- and B-cells, dendritic cells, keratinocytes and monocytes after LPS and IFNG activation and up-regulated in B-cells activated by surface Ig cross-linking. PD-L1 involve in the costimulatory signal, essential for T-cell proliferation and production of IL10 and IFNG, in an IL2-dependent and a PDCD1-independent manner.

Molecular Weight: 54.0 kDa

NCBI Accession: [NP_054862](#)

Pathways: [Cancer Immune Checkpoints](#)

Application Details

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.

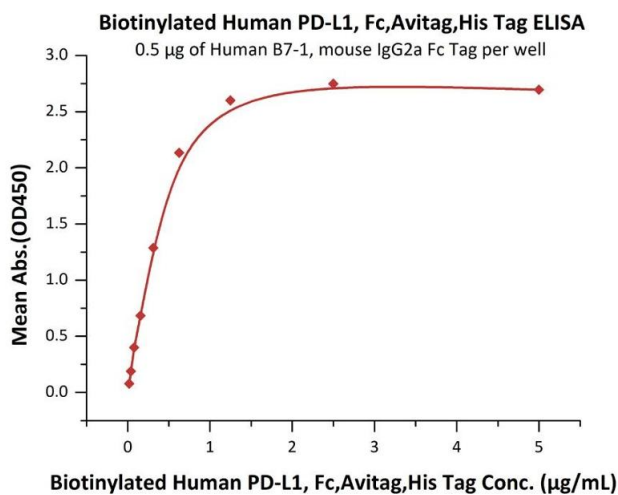
This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated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

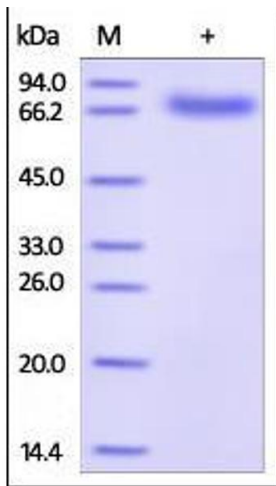
Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

Images



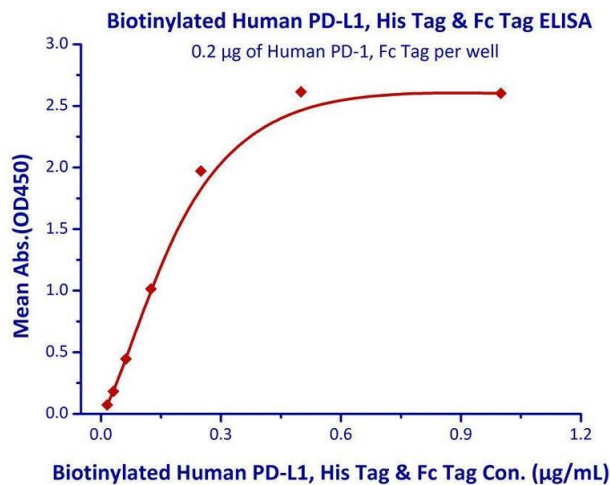
ELISA

Image 1. Immobilized Human B7-1, mouse IgG2a Fc Tag, low endotoxin (ABIN5674619,ABIN6253663) at 5 µg/mL (100 µL/well) can bind Biotinylated Human PD-L1, Fc,Avitag,His Tag (ABIN2181598,ABIN2181597) with a linear range of 0.02-0.625 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Biotinylated Human PD-L1, His Tag & Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

Image 3. Immobilized Human PD-1, Fc Tag with a linear range of 0.01-0.25 µg/mL.