

Recombinant Mouse CD274 protein, Fc-tagged

Cat. No. CD274-366M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CD274 Protein (19-238aa), was expressed in human 293 cells (HEK293) with C-terminal human IgG1 Fc tag.
Species	Mouse
Source	HEK293
ProteinLength	19-238 aa
Description	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.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 51.4 kDa. The protein migrates as 70-95 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD274
Official Symbol	CD274
Synonyms	CD274; CD274 antigen; programmed cell death 1 ligand 1; B7 homolog 1; PDCD1 ligand 1; programmed death ligand 1; B7h1; Pdl1; Pdcd1l1; Pdcd1lg1; A530045L16Rik
Gene ID	60533
mRNA Refseq	NM_021893

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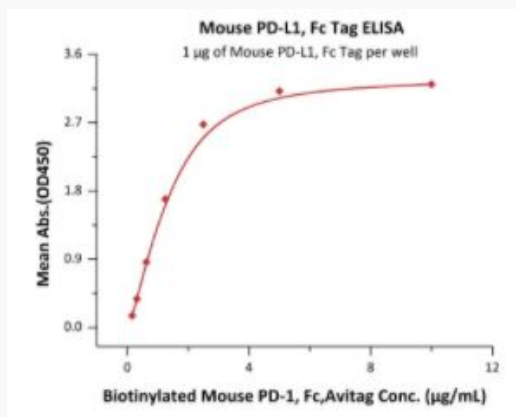
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Protein Refseq NP_068693

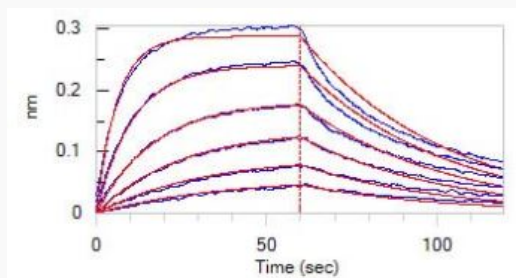
UniProt ID Q3U472

Bioactivity-ELISA of CD274-366M



Immobilized Mouse PD-L1, Fc Tag at 10 µg/mL (100 µL/well) can bind Biotinylated Mouse PD-1, Fc,Avitag with a linear range of 0.156-2.5 µg/mL (QC tested).

Bioactivity-BLI of CD274-366M



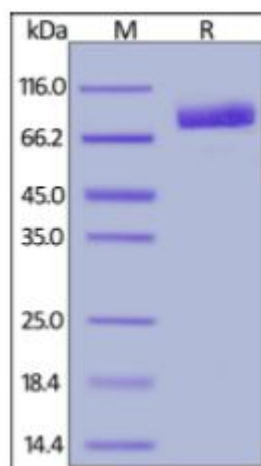
Loaded Human PD-1, His Tag (HPLC-verified) on HIS1K Biosensor, can bind Mouse PD-L1, Fc Tag with an affinity constant of 41.6 nM as determined in BLI assay (Routinely tested).

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**SDS-PAGE of CD274-
366M**



Mouse PD-L1, 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%.