

## Recombinant Mouse CD274 protein, Fc-tagged

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

### SPECIFICATION

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

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|                       |  |
|-----------------------|--|
| <b>Molecular Mass</b> | 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.   |
| <b>Endotoxin</b>      | Less than 1.0 EU per ug by the LAL method.   |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.  |
| <b>Storage</b>        | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state;<br/> -70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| <b>Reconstitution</b> | 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

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | CD274   |
| <b>Official Symbol</b> | CD274   |
| <b>Synonyms</b>        | CD274; CD274 antigen; programmed cell death 1 ligand 1; B7 homolog 1; PDCD1 ligand 1; programmed death ligand 1; B7h1; Pdl1; Pdcd111; Pdcd1lg1; A530045L16Rik |
| <b>Gene ID</b>         | 60533   |
| <b>mRNA Refseq</b>     | NM_021893   |

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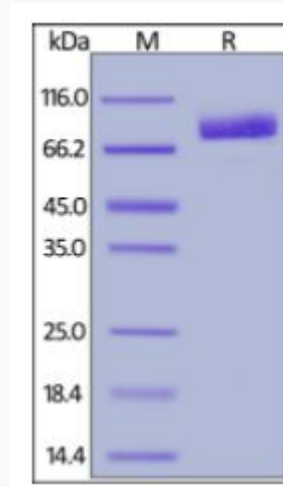
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**Protein Refseq** NP\_068693

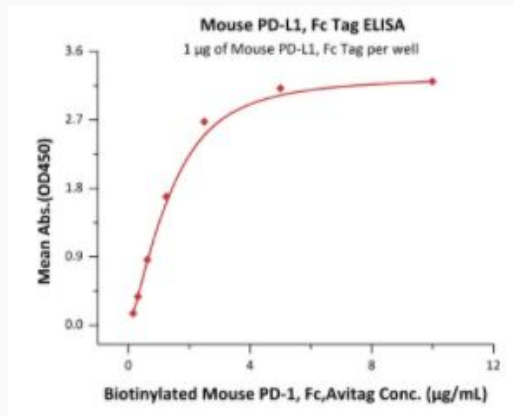
**UniProt ID** Q3U472

**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%.

**Bioactivity-ELISA of CD274-366M**

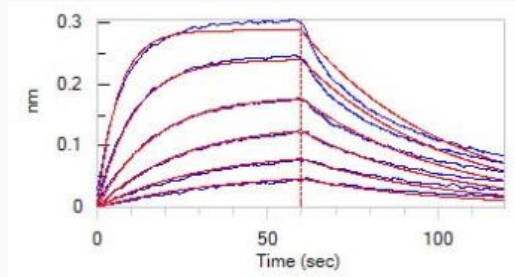


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Immobilized Mouse PD-L1, Fc Tag at 10  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind Biotinylated Mouse PD-1, Fc, Avitag with a linear range of 0.156-2.5  $\mu\text{g/mL}$  (QC tested).




**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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