

Active Recombinant Mouse CD274 Homodimer Protein, His tagged

Cat. No. Cd274-51M **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Mouse PD-L1 Protein dimer (Q9EP73), was expressed in HEK293T with C-terminal proprietary cis-dimer motif and His tag (contains PD-L1 extracellular domain).

Species Mouse

Source HEK293T

ProteinLength 19-239 aa

Description Programmed death-ligand 1 (PD-L1), is a Type I transmembrane protein in the immunoglobulin superfamily and a member of the B7 Family of ligands. PD-L1 is also known as cluster of differentiation 274 (CD274), B7 homolog 1 (B7H1, B7-H1), PDCD1L1, PDCD1LG1, and CD274 molecule. PD-L1 contains an extracellular domain with a distal immunoglobulin V-like (Ig-V-like) domain and proximal immunoglobulin C-like (Ig-C-like) domain, a transmembrane domain, and a cytoplasmic domain. PD-L1 is expressed on T cells, NK cells, macrophages, myeloid DCs, B cells, epithelial cells, and vascular endothelial cells. PD-L1 serves as an immunosuppressive ligand for PD-1 and the overexpression of PD-L1 on many tumor cells can prevent the immune system from attacking tumors. Inhibition of the interaction between PD-1 and PD-L1 can enhance antitumor activity, which has led to a new class of drugs called PD-1 inhibitors to activate the immune system and treat certain types of cancer. PD-L1 is highly expressed in a variety of malignancies,

 Tel: 1-631-559-9269 1-516-512-3133

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particularly lung cancer. PD-L1 exists as both a monomer and a dimer. Therefore, a recombinant protein mimicking the PD-L1 dimer conformation can be crucial for cancer therapeutic discovery. Mouse PD-L1, the murine homolog of human Programmed Death-Ligand 1 (PD-L1), is a critical immune checkpoint protein involved in regulating immune responses and is indispensable for studying immune checkpoint biology and immunotherapy. It is a species-specific tool essential for basic research, translational research and preclinical studies.

Molecular Mass	66 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA and SPR for PD-L1-specific antibody binding assays. Suggested Applications: SPR for PD-L1 and PD-1 protein binding assays. BLI for PD-L1-specific antibody and PD-1 protein binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

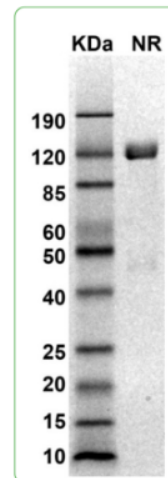
Gene Name	Cd274 CD274 antigen [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cd274
Synonyms	CD274; CD274 antigen; programmed cell death 1 ligand 1; B7 homolog 1; PD-1 ligand 1; programmed death ligand 1; B7h1; Pdl1; Pdcd11l1; Pdcd1lg1;

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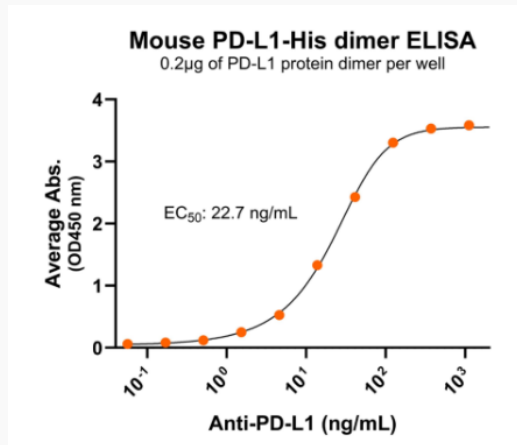
A530045L16Rik;

Gene ID 60533**mRNA Refseq** NM_021893**Protein Refseq** NP_068693**UniProt ID** Q9EP73**SDS-PAGE and WB**

MW: Molecular Weight marker reduced condition NR: PD-L1 dimer under non-reduced condition

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**Bioactivity-Antibody
Binding**



Immobilized mouse PD-L1 protein dimer, His Tag at 2 µg/mL (100 µL/well) can bind anti-mouse PD-L1 monoclonal antibody with half maximal effective concentration (EC₅₀) range of 11.4-45.4 ng/mL (QC tested).

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