Active Recombinant Mouse CD274 Protein, Fc-tagged

Cat. No. CD274-77M **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 Fc 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, particularly lung cancer. PD-L1 exists as both a monomer and a

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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	102 kDa
Homodimer/Heterodimer	Homodimer
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	At -80 centigrade
Storage Buffer	0.2μm filtered PBS, pH 7.4, no preservatives
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID	60533
Gene Name	Cd274 CD274 antigen [Mus musculus (house mouse)]

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	60533
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;
mRNA Refseq	NM_021893
Official Symbol 2	Cd274
Gene ID 2	60533
Gene Name 2	Cd274 CD274 antigen [Mus musculus (house mouse)]
mRNA Refseq 2	NM_021893
Protein Refseq 2	NP_068693
UniProt ID 2	Q9EP73
Bioactivity-Antibody Binding	Immobilized mouse PD-L1-Fc protein dimer at 2 μg/mL (100 μL/well) can bind anti-mouse PD-L1 monoclonal antibody with half maximal effective concentration (EC50) range of 7.4-29.5 ng/mL (QC tested).
SDS-PAGE	MW: Molecular Weight marker reduced condition NR: PD-L1 dimer under non-reduced condition

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA