

Active Recombinant Human CD274 Protein, Fc-tagged

Cat. No. CD274-178H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD274 Protein extracellular domain (19-239aa, signal peptide removed), was expressed in CHO with C-terminal Fc tag.
Species	Human
Source	CHO
ProteinLength	19-239 aa
Description	Programmed death-1 ligand-1 (PD-L1, CD274, B7-H1) has been identified as the ligand for the immunoinhibitory receptor programmed death-1(PD1/PDCD1) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance. PD-L1/B7-H1 is a member of the growing B7 family of immune molecules and this protein contains one V-like and one C-like Ig domain within the extracellular domain, and together with PD-L2, are two ligands for PD1 which belongs to the CD28/CTLA4 family expressed on activated lymphoid cells. By binding to PD1 on activated T-cells and B-cells, PD-L1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression. Accordingly, it leads to growth of immunogenic tumor growth by increasing apoptosis of antigen specific T cells and may contribute to immune evasion by cancers. PD-L1 thus is regarded as promising therapeutic target for human autoimmune disease and malignant cancers.
Predicted N Terminal	Phe 19
Form	Lyophilized from sterile PBS, pH 7.4.

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Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized human B7-H1 at 20 µg/ml (100 µl/well) can bind recombinant human B7-H1 / PD-L1 / Fc chimera with a linear range of 0.032-0.8 µg/ml.
Molecular Mass	The recombinant human PD-L1 consists of 471 amino acids and predicts a molecular mass of 53.2 KD.
Endotoxin	<1.0EU/ug, LAL method
Purity	>98% (SDS-PAGE)
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
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 CD274 molecule [Homo sapiens]
Official Symbol	CD274
Synonyms	CD274; CD274 molecule; CD274 antigen , PDCD1LG1, programmed cell death 1 ligand 1; programmed cell death 1 ligand 1; B7 homolog 1; B7 H; B7 H1; B7H1; PD L1; PDL1; CD274 antigen; PDCD1 ligand 1; programmed death ligand 1; B7-H; PD-L1; PDCD1L1; PDCD1LG1; MGC142294; MGC142296;
Gene ID	29126

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mRNA Refseq	NM_014143
Protein Refseq	NP_054862
MIM	605402
UniProt ID	Q9NZQ7
Chromosome Location	9p24.1
Pathway	Adaptive Immune System, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Immune System, organism-specific biosystem; PD-1 signaling, organism-specific biosystem;
Function	protein binding; protein tyrosine phosphatase activity; receptor activity;

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