

Recombinant Human CD274, His-tagged, Biotinylated

Cat. No. CD274-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDL1 (CD274) Protein (19-238aa), was expressed in human 293 cells (HEK293) with biotin conjugate (labeled with biotin based on rhPDL1 Protein).
Species	Human
Source	HEK293
ProteinLength	19-238 aa
Description	Programmed cell death 1 ligand 1 (PD-L1) 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 µm filtered solution in PBS, pH7.4. Normally Trehalose are

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

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	added as protectants before lyophilization.
Molecular Mass	Biotinylated PDL1 / CD274, fused with 6×His tag at the C-terminus, has a calculated MW of 26 kDa. The predicted N-terminus is Phe 19. DTT-reduced Protein migrates as 35-42 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per µg of the Biotinylated PDL1 / CD274 by the LAL method.
Purity	>95% as determined by reduced SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
Conjugation	Biotin

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
mRNA Refseq	NM_014143

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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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