

# Recombinant Human CD274, His-tagged, Biotinylated

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Human PDL1 (CD274) Protein (19-238aa), was expressed in human 293 cells (HEK293) with biotin conjugate (labeled with biotin based on rhPDL1 Protein).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 19-238 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose are                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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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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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_054862                                                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>                 | 605402                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | Q9NZQ7                                                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 9p24.1                                                                                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | protein binding; protein tyrosine phosphatase activity; receptor activity;                                                                                                                                                                                                                                                     |

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