

## Recombinant Human CD274, Biotin-His-tagged

**Cat. No.** CD274-8229H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b>     | Recombinant Human PDL1 (CD274) Protein, 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>Description</b>          | <p>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.</p> |
| <b>Predicted N Terminal</b> | Phe 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>                 | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b>   | 26 kDa. DTT-reduced Protein migrates as 35-42 kDa due to glycosylation.                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg of the Biotinylated PDL1 / CD274 by the LAL method.                                                                                                                                                                                                        |
| <b>Purity</b>           | >95% as determined by reduced SDS-PAGE.                                                                                                                                                                                                                                            |
| <b>Storage</b>          | Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).                                                      |
| <b>Conjugation</b>      | Biotin                                                                                                                                                                                                                                                                             |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>        | CD274 CD274 molecule [ Homo sapiens ]                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>  | CD274                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>         | 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; |
| <b>Gene ID</b>          | 29126                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>      | NM_014143                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>   | NP_054862                                                                                                                                                                                                                                                                          |
| <b>MIM</b>              | 605402                                                                                                                                                                                                                                                                             |

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|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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