

## Active Recombinant Human CD274, MlgG2a Fc-tagged

**Cat. No.** CD274-002H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PDL1 Protein extracellular domain (NP_054862.1, 19-238aa), was expressed in CHO cell with N-terminal mouse IgG2a Fc tag.                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 19-238 aa                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | CD274 (CD274 molecule) is a protein-coding gene. Diseases associated with CD274 include pulmonary venoocclusive disease, and htlv-1 associated myelopathy/tropical spastic paraparesis, and among its related super-pathways are Immune System and Phosphorylation of CD3 and TCR zeta chains. GO annotations related to this gene include protein binding |
| <b>Form</b>             | Lyophilized from 0.2µm-filtered solution in PBS.                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | Measured by its ability to inhibit anti-CD3 antibody induced IL-2 secretion in human T lymphocytes.                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 54 KDa (monomer)                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | Phe19-Arg238                                                                                                                                                                                                                                                                                                                                               |
| <b>Endotoxin</b>        | <0.06 eu/µg="" as="" determined="" by="" la="" test="">                                                                                                                                                                                                                                                                                                    |

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|                       |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >98%, by SDS-PAGE under reducing conditions.                                                                                        |
| <b>Stability</b>      | Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C. |
| <b>Reconstitution</b> | Reconstitute at 100µg/ml in sterile PBS.                                                                                            |
| <b>Warning</b>        | Avoid freeze/thaw cycles.                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>      | Q9NZQ7                                                                                                                                                                                                                                                                             |
| <b>Chromosome</b>      | 9p24.1                                                                                                                                                                                                                                                                             |

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| Location |                                                                                                                                                                                                                                                                                                                                |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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