

# Active Recombinant Human CD274 Homodimer Protein, His and Avi tagged

**Cat. No.** CD274-52H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Human PD-L1 Protein dimer (Q9NZQ7), was expressed in HEK293T with C-terminal proprietary cis-dimer motif and tandem His-Avi tag (contains PD-L1 extracellular domain).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 19-238 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Human programmed death-ligand 1 (PD-L1), is a Type I transmembrane protein in the immunoglobulin superfamily and a member of the B7 Family of ligands. PD-L1 is also known as cluster of differentiation 274 (CD274), B7 homolog 1 (B7H1, B7-H1), PDCD1L1, PDCD1LG1, and CD274 molecule. PD-L1 contains an extracellular domain with a distal immunoglobulin V-like (Ig-V-like) domain and proximal immunoglobulin C-like (Ig-C-like) domain, a transmembrane domain, and a cytoplasmic domain. PD-L1 is expressed on T cells, NK cells, macrophages, myeloid DCs, B cells, epithelial cells, and vascular endothelial cells. PD-L1 serves as an immunosuppressive ligand for PD-1 and the overexpression of PD-L1 on many tumor cells can prevent the immune system from attacking tumors. Inhibition of the interaction between PD-1 and PD-L1 can enhance antitumor activity, which has led to a new class of drugs called PD-1 inhibitors to activate the immune system and treat certain types of cancer. PD-L1 is highly expressed in a variety of malignancies, |

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particularly lung cancer. PD-L1 exists as both a monomer and a dimer. Therefore, a recombinant protein mimicking the PD-L1 protein dimer conformation can be crucial for cancer therapeutic discovery.

|                       |                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 70 kDa                                                                                                                                                                                                                              |
| <b>Purity</b>         | Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition                                                                                                                                                  |
| <b>Application</b>    | Verified Applications: ELISA and BLI for PD-L1-specific antibody and BLI for PD-1 ligand protein binding assays. Suggested Applications: SPR for PD-L1-specific antibody and PD-1 protein binding assays. Animal immunization, RUO. |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                                                                                                            |
| <b>Storage Buffer</b> | 0.22µm filtered PBS, pH 7.4                                                                                                                                                                                                         |
| <b>Shipping</b>       | Frozen Dry Ice                                                                                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CD274 CD274 molecule [ Homo sapiens (human) ]                                                                                                                                                                                                                                     |
| <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                                                                                                                                                                                                                                                                             |

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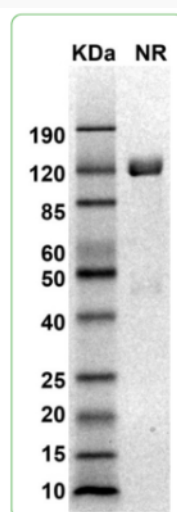
**mRNA Refseq** [NM\\_014143](#)

**Protein Refseq** [NP\\_054862](#)

**MIM** [605402](#)

**UniProt ID** [Q9NZQ7](#)

#### SDS-PAGE and WB



MW: Molecular Weight marker reduced condition NR: PD-L1 dimer under non-reduced condition

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