

# Active Recombinant Human CD274 Protein, hFc-tagged, Alexa Fluor 555 conjugated

**Cat. No.** CD274-020HAF555    **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 human IgG1 Fc tag and Alexa Fluor 555 conjugate.                                                                                                                                                                                    |
| <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                                                                                                                                                                                                                                                                                                                                                |
| <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                                                                                                                                                                                                                                                                                                                                               |

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.06 EU/ µg as determined by LAL test.                                                                                                                                                                                                                  |
| <b>Purity</b>         | > 98 % by SDS-PAGE under reducing conditions.                                                                                                                                                                                                             |
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 555 via amines<br>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters. |
| <b>Stability</b>      | Stable for at least 1 year after receipt when stored at -20 centigrade. Working aliquots are stable for up to 3 months when stored at -20 centigrade.                                                                                                     |
| <b>Concentration</b>  | 100 µg/mL                                                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | Lyophilized from 0.2 µm filtered solution in PBS.                                                                                                                                                                                                         |
| <b>Reconstitution</b> | Reconstitute at 100 µg/mL in sterile PBS.                                                                                                                                                                                                                 |
| <b>Conjugation</b>    | Alexa Fluor 555                                                                                                                                                                                                                                           |

## 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; |

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|----------------|-----------|
| Gene ID        | 29126     |
| mRNA Refseq    | NM_014143 |
| Protein Refseq | NP_054862 |
| MIM            | 605402    |
| UniProt ID     | Q9NZQ7    |

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