

# Active Recombinant Human CD274 Protein, Fc-tagged, Alexa Fluor 647 conjugated

Cat. No. CD274-178HAF647 Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD274 Protein extracellular domain (19-239aa, signal peptide removed), was expressed in CHO with C-terminal Fc tag and Alexa Fluor 647 conjugate.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	19-239 aa
<b>Description</b>	<p>Programmed death-1 ligand-1 (PD-L1, CD274, B7-H1) has been identified as the ligand for the immunoinhibitory receptor programmed death-1 (PD1/PDCD1) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance. PD-L1/B7-H1 is a member of the growing B7 family of immune molecules and this protein contains one V-like and one C-like Ig domain within the extracellular domain, and together with PD-L2, are two ligands for PD1 which belongs to the CD28/CTLA4 family expressed on activated lymphoid cells. By binding to PD1 on activated T-cells and B-cells, PD-L1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression. Accordingly, it leads to growth of immunogenic tumor growth by increasing apoptosis of antigen specific T cells and may contribute to immune evasion by cancers. PD-L1 thus is regarded as promising therapeutic target for human autoimmune disease and malignant cancers.</p>

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<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. Immobilized human B7-H1 at 20 µg/mL (100 µL/well) can bind recombinant human B7-H1/PD-L1/Fc chimera with a linear range of 0.032-0.8 µg/mL.
<b>Molecular Mass</b>	53.2 KD
<b>N-terminal Sequence Analysis</b>	Phe 19
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 98 % as determined by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
<b>Stability</b>	Samples are stable for up to 12 months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 to-70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Lyophilized from sterile PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

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**Conjugation** Alexa Fluor 647

## 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

**Protein Refseq** NP\_054862

**MIM** 605402

**UniProt ID** Q9NZQ7

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