

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

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

SPECIFICATION

Product Overview

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.

Species

Human

Source

CHO

ProteinLength

19-239 aa

Description

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.

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Form	Lyophilized
Bio-activity	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.
Molecular Mass	53.2 KD
N-terminal Sequence Analysis	Phe 19
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 98 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Stability	Samples are stable for up to 12 months from date of receipt at -70 centigrade.
Storage	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.
Storage Buffer	Lyophilized from sterile PBS, pH 7.4.
Reconstitution	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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