

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

Cat. No. CD274-175HAF555 Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human CD274 [B7-H1] Protein extracellular domain (19-238aa), was expressed in Mammalian system with N-terminal human IgG1 Fc tag and Alexa Fluor 555 conjugate.

**Species** Human

**Source** CHO

**ProteinLength** 19-238 aa

**Description** Programmed death ligand 1 (PD-L1, B7-H1 or CD274) is a member of the growing B7 family of immune proteins that provide signals for both stimulating and inhibiting T cell activation. CD274 has been identified as one of two ligands for programmed death 1 (PD-1), a member of the CD28 family of immunoreceptors. CD274 is widely expressed in several organs such as heart, skeletal muscle, placenta and lung, and in lower amounts in thymus, spleen, kidney and liver. CD274 expression is upregulated in a small fraction of activated T and B cells and a much larger fraction of activated monocytes. CD274 expression is also induced in dendritic cells and keratinocytes after IFN-gamma; stimulation. CD274 expression is also upregulated in a variety of tumor cell lines. Interaction of CD274 with PD-1 results in inhibition of TCR mediated proliferation and cytokine production, suggesting an inhibitory role in regulating immune responses. The CD274 - PD-1 pathway is involved in the negative regulation of some immune responses and may play an important role in the regulation of

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	peripheral tolerance.
<b>Form</b>	Lyophilized
<b>Purity</b>	≥98 % by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 555 via amines 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>Storage</b>	Short Term Storage: +4 centigrade; Long Term Storage: -20 centigrade. Avoid freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from 0.2 µm filtered solution in 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-

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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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