

## Recombinant Human CD274 Protein

**Cat. No.** CD274-593H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD274 Protein (NP_054862.1, 1-238aa), was expressed in HEK293 cells with no tag.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-238 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>
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4.
<b>Molecular Mass</b>	The recombinant human CD274 consists of 220 amino acids and predicts a molecular

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	mass of 25.2 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	Reconstitute in ddH2O.
<b>GENE INFORMATION</b>	
<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;
<b>Gene ID</b>	29126
<b>mRNA Refseq</b>	NM_014143
<b>Protein Refseq</b>	NP_054862
<b>MIM</b>	605402

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UniProt ID

Q9NZQ7

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