

Active Recombinant Human CD274 Protein, His & Fc & Avi-tagged, Biotinylated

Cat. No. CD274-365H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD274 Protein (NP_054862.1, 19-238aa), was expressed in human 293 cells (HEK293) with C-terminal human IgG1 Fc tag, Avi tag, His tag and biotinylated conjugate.
Species	Human
Source	HEK293
ProteinLength	19-238 aa
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 10 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Human PD-1, Fc Tag at 2 µg/mL (100µL/well) can bind Recombinant Human CD274 Protein, His & Fc & Avi-tagged, Biotinylated with a linear range of 0.01-0.25 µg/mL (QC tested). Immobilized Human B7-1, mouse IgG2a Fc Tag, low endotoxin at 5 µg/mL (100 µL/well) can bind Recombinant Human CD274 Protein, His & Fc & Avi-tagged, Biotinylated with a linear range of 0.02-0.625 µg/mL (Routinely tested). Flow Cytometry assay shows that recombinant Recombinant Human CD274 Protein, His & Fc & Avi-tagged, Biotinylated can bind to 293 cell overexpressing human PD-1. The concentration of PD-L1 used is 1 µg/ml (Routinely tested).

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FACS analysis shows that the binding of Recombinant Human CD274 Protein, His & Fc & Avi-tagged, Biotinylated to 293 overexpressing PD-1 was inhibited by increasing concentration of neutralizing anti-PD-1 antibody. The concentration of PD-L1 used is 2µg/ml. The IC50 is 0.64 µg/ml (Routinely tested).

Immobilized cell surface PD-1(5x10⁴ of cells per well) can bind Recombinant Human CD274 Protein, His & Fc & Avi-tagged, Biotinylated with an EC50 of 0.082ug/ml (Routinely tested).

Molecular Mass	53.2 kDa
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Notes	Please avoid repeated freeze-thaw cycles.
Stability	No activity loss is observed after storage at: 4-8 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

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Gene Name	CD274 CD274 molecule [Homo sapiens]
Official Symbol	CD274
Synonyms	CD274; CD274 molecule; B7 homolog 1; B7 H; B7 H1; B7H1; PD L1; PDL1; CD274 antigen; PDCD1 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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