

Active Recombinant Human CD274 protein, His-tagged, biotinylated

Cat. No. CD274-785H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD274 Protein (NP_054862.1, 19-238aa), was expressed in HEK293 with C-terminal His tag and biotinylated conjugate (contains 4 potential N-linked glycosylation sites).
Species	Human
Source	HEK293
ProteinLength	19-238 aa
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Binds to its receptor PD-1 extracellular domain proteins and PD-1 molecule on cell surface with low affinity (KD in μ M range) and anti-PD-L1 monoclonal antibody with high affinity(KD < 1 nM) as measured by ELISA.
Molecular Mass	Calculated molecular mass 26.5kDa; estimated by SDS-PAGE under reducing condition ~35 kDa with higher molecular mass smear resembling different glycosylation states.
AA Sequence	FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVWEMEDKNIIQFVHGEEEDLKV QHSSYRQRARLLKDQLS LGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNA PYNKINQRILVVDPTSEHELTCQAEGYPKAEVIW TSSDHQVLSGKTTTTNSKREEK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LFNVTSTLRINTTTNEIFYCTFRRLDPEENHTAELVIPELPLAHPNERSTG HHHHHH
HH

Endotoxin <0.1 EU per 1 µg of purified recombinant protein determined by the LAL method

Purity >95% judged by SDS-PAGE under reducing condition

Conjugation Biotin

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](#)

Chromosome 9p24.1

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Location

Pathway

Function

Adaptive Immune System, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Immune System, organism-specific biosystem; PD-1 signaling, organism-specific biosystem;

protein binding; protein tyrosine phosphatase activity; receptor activity;

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