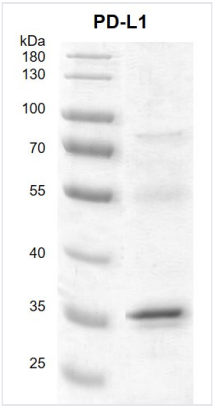
PD-L1/CD274 Recombinant Protein

PRODUCT OVERVIEW

Product Name	PD-L1/CD274, Recombinant Protein
Full Product Name	Recombinant PD-L1/CD274 (19-239) protein
Product Gene Name	PD-L1/CD274 recombinant protein
Product Synonym Names	B7-H1
Host	Baculovirus
Form/Format	Recombinant PD-L1/CD274 (19-239) protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5mM TCEP.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice
Molecular Weight	20,246 Da
OMIM	605402
3D Structure	ModBase 3D Structure for Q9NZQ7
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant PD-L1/CD274 (19-239) protein that includes amino acids 19-239 of human PD-L1 protein (accession number NP_054862.1) was expressed in a baculovirus expression system, and contains an C-terminal DYKDDDDK tag.
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for PD-L1/CD274 recombinant protein	Recombinant Proteins
Related Product Information for PD-L1/CD274 recombinant protein	Background: PD-L1 is a ligand that binds with the receptor PD1, commonly found on T-cells, and acts to block T-cell activation. It plays a critical role in induction and maintenance of immune tolerance to self. As a ligand for the inhibitory receptor PDCD1/PD-1, PD-L1 modulates the activation threshold of T-cells and limits T-cell effector response. Through a yet unknown activating receptor, PD-L1 may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10). The PDCD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and escape destruction by the immune system, thereby facilitating tumor survival. The interaction with PDCD1/PD-1 inhibits cytotoxic T lymphocytes (CTLs) effector function. The blockage of the PDCD1-mediated pathway results in the reversal of the exhausted T-cell phenotype and the normalization of the anti-tumor response, providing a rationale for cancer immunotherapy.
Other Notes	Small volumes of PD-L1/CD274 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PD-L1/CD274 purchase	MBS389431 is a recombinant protein targeting PD-L1/CD274. Also known as Recombinant PD-L1/CD274 (19-239) protein. Host: Baculovirus.



SDS-Page of PD-L1/CD274 recombinant protein
Recombinant PD-L1 / CD274 (19-239) protein 10% SDS-PAGE Coomassie staining MW: 27.1 kDa Purity: >80%

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PD-L1/CD274. It may not necessarily be applicable to this product.

NCBI GI #	7661534
NCBI GeneID	29126
NCBI Accession #	NP_054862.1
UniProt Primary Accession #	Q9NZQ7
UniProt Secondary Accession #	Q14CJ2; Q2V8D5; Q66RK1; Q6WEX4; Q9NUZ5; B2RBA2; B4DU27
UniProt Related Accession #	Q9NZQ7
GenBank Nucleotide #	NM_014143.3
NCBI Official Full Name	programmed cell death 1 ligand 1 isoform a
NCBI Official Synonym Full Names	CD274 molecule
NCBI Official Symbol	CD274
NCBI Official Synonym Symbols	B7-H; B7H1; PDL1; PD-L1; PDCD1L1; PDCD1LG1
UniProt Protein Name	Programmed cell death 1 ligand 1
UniProt Synonym Protein Names	B7 homolog 1
Protein Family	Programmed cell death
UniProt Gene Name	CD274
UniProt Synonym Gene Names	B7H1; PDCD1L1; PDCD1LG1; PDL1; PD-L1; PDCD1 ligand 1; Programmed death ligand 1; B7-H1
UniProt Entry Name	PD1L1_HUMAN
NCBI Protein Information	programmed cell death 1 ligand 1
NCBI Summary for PD-L1/CD274	This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

UniProt Comments for PD-L1/CD274	CD274: Involved in the costimulatory signal, essential for T- cell proliferation and production of IL10 and IFNG, in an IL2- dependent and a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation and cytokine production. Belongs to the immunoglobulin superfamily. BTN/MOG family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 9p24 Cellular Component: plasma membrane; integral to membrane; endomembrane system; external side of plasma membrane Molecular Function: protein binding Biological Process: regulation of activated T cell proliferation; cell surface receptor linked signal transduction; negative regulation of interleukin-10 production; negative regulation of interferon-gamma production; negative regulation of activated T cell proliferation; T cell costimulation; immune response; positive regulation of T cell proliferation; signal transduction
Research Articles on PD-L1/CD274	**1.** The expression of PD-L1 in breast-invasive ductal carcinoma was significantly increased, and it was related to histological grading, clinical staging, and lymph node metastasis of breast cancer.
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