Programmed Cell Death 1 Ligand 1 (CD274) Protein

PRODUCT OVERVIEW

Product Name	Programmed cell death 1 ligand 1 (CD274), Protein
Full Product Name	Programmed cell death 1 ligand 1
Product Gene Name	CD274 protein
Product Synonym Names	B7h1; Pdcd1l1; Pdcd1lg1; Pdl1; B7 homolog 1; B7-H1; CD274
Host	E Coli
Form/Format	Liquid
Purity/Purification	>95% by SDS-PAGE
Preparation and Storage	Store at -20 degree C. Avoid repeated freezing and thawing.
Molecular Weight	32,780 Da
3D Structure	ModBase 3D Structure for Q9EP73
Tags	His
Storage Buffer	50mM NaH2PO4, 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)
Applications Tested/Suitable for CD274 protein	ELISA (EIA), Western Blot (WB), Affinity Purification (AP), Protein Array
Related Product Information for CD274 protein	MBS2888702 is a protein targeting CD274. Also known as Programmed cell death 1 ligand 1. Host: E Coli.
Other Notes	Small volumes of CD274 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.

ADDITIONAL DETAILS

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

NCBI GI #	11230798
NCBI GeneID	60533
NCBI Accession #	NP_068693.1
UniProt Primary Accession #	Q9EP73
UniProt Related Accession #	Q9EP73
GenBank Nucleotide #	NM_021893.3
NCBI Official Full Name	programmed cell death 1 ligand 1
NCBI Official Synonym Full Names	CD274 antigen
NCBI Official Symbol	Cd274
NCBI Official Synonym Symbols	B7h1; Pdl1; Pdcd1l1; Pdcd1lg1; A530045L16Rik
UniProt Protein Name	Programmed cell death 1 ligand 1

UniProt Synonym Protein Names	B7 homolog 1; B7-H1; CD_antigen: CD274
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
NCBI Protein Information	programmed cell death 1 ligand 1
NCBI Summary for CD274	The protein encoded by this gene is 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. Mice deficient for this gene display a variety of phenotypes including decreased allogeneic fetal survival rates and severe experimental autoimmune encephalomyelitis. [provided by RefSeq, Sep 2015]
UniProt Comments for CD274	Plays a critical role in induction and maintenance of immune tolerance to self. As a ligand for the inhibitory receptor PDCD1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:11238124). The PDCD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and facilitate tumor survival (). May costimulate helper T-cell subsets through a yet unknown activating receptor (PubMed:11015443, PubMed:12719480).
Research Articles on CD274	**1.** B7-H1 suppresses p38 MAPK activation by sequestering DNA-PKcs in order to preserve T cell survival
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/cd274-protein/programmed-cell-death-1-ligand-1/2888702