CD274 / Pd-L1 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	CD274 / PD-L1, Blocking Peptide
Full Product Name	CD274 / PD-L1 Immunizing Peptide
Product Gene Name	CD274 blocking peptide
Product Synonym Gene Name	PD-L1
Product Synonym Names	CD274; CD274 antigen; PD-L1; PDCD1LG1; B7-H; B7H1; PDL1; PDCD1L1; programmed cell death 1 ligand 1; PDL1; HGNC: 17635; CD274 molecule; MGC142294; MGC142296; CD274 / PD-L1
Sequence	CKKQSDTHLE ET
Species Reactivity	Human
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	CD274 / PD-L1 peptide (MBS425798) is used for blocking the activity of CD274/PD-L1 antibody (MBS421103)
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Molecular Weight	20,454 Da
OMIM	605402
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for CD274 blocking peptide	MBS425798 is a blocking peptide targeting CD274. Also known as CD274 / PD-L1 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of CD274 blocking peptide 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 #	7661534
NCBI GeneID	29126
NCBI Accession #	NP_054862.1
NCBI Related Accession #	NP_001254635.1
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; 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
UniProt Entry Name	PD1L1_HUMAN
NCBI Protein Information	programmed cell death 1 ligand 1
NCBI Summary for 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 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: endomembrane system; external side of plasma membrane; integral to membrane; plasma membrane Molecular Function: protein binding Biological Process: cell surface receptor linked signal transduction; immune response; negative regulation of activated T cell proliferation; negative regulation of interferon-gamma production; negative regulation of interleukin-10 production; positive regulation of cell migration; positive regulation of T cell proliferation; regulation of activated T cell proliferation; response to cytokine stimulus; signal transduction; T cell costimulation
Research Articles on CD274	**1.** High expression of B7H1 is associated with Colorectal Cancer.
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