CD274 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD274, Polyclonal Antibody
Full Product Name	CD274 Antibody
Product Gene Name	anti-CD274 antibody
Product Synonym Names	B7-H; B7H1; PDL1; PD-L1; PDCD1L1; PDCD1LG1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification
Specificity	The antibody detects endogenous levels of total CD274 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	33,275 Da
OMIM	605402
3D Structure	ModBase 3D Structure for Q9NZQ7
Immunogen	Synthetic peptide of human CD274
Product Categories/Family for anti-CD274 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD274 antibody	Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CD274 antibody	WB: 1:200-1000 IHC: 1: 20-100
Related Product Information for anti-CD274 antibody	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
Other Notes	Small volumes of anti-CD274 antibody 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 CD274 purchase	MBS8594444 is an antibody targeting CD274. Also known as CD274 Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	390979639
NCBI GeneID	29126
NCBI Accession #	NP_001254635.1
UniProt Primary Accession #	Q9NZQ7
UniProt Secondary Accession #	Q14CJ2; Q2V8D5; Q66RK1; Q6WEX4; Q9NUZ5; B2RBA2; B4DU27
UniProt Related Accession #	Q9NZQ7
GenBank Nucleotide #	NM_001267706.1
NCBI Official Full Name	programmed cell death 1 ligand 1 isoform b
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; B7 homolog 1; CD274 antigen; PDCD1 ligand 1; programmed death ligand 1
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: 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 CD274	**1.** Upregulation of B7-H1 in gastric cancer tissue correlated with disease progression and prognosis of gastric cancer patients.
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