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Product Information

MemDX™ Membrane Protein Human CD274 (CD274 molecule) expressed in CHO for Antibody Discovery

Cat. No.: **MP0053Q**
This product is for research use only and is not intended for diagnostic use.

This product is a 102.6 kDa Human CD274 membrane protein expressed in CHO. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
CD274

Protein Length
Partial

Protein Class
Druggable Genome, Transmembrane

Molecular Weight
102.6 kDa

TMD
1

Sequence
FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKL
KVNAPYNKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREE KLFNVTSTLRINTTTNEIFYCTFRRLDP
LPLAHPPNERGGPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV DVSHEDPEVKFNWYVDGVEVHNAKT
VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQP
FLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Product Description

Expression Systems
CHO

Form
Powder

Endotoxin

< 1 EU/μg

Purity

>95% pure by SDS-PAGE and HPLC analyses

Buffer

10mM Sodium Phosphate + 25mM NaCl, pH 7.6

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

CD274

Full Name

CD274 molecule

Introduction

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.

Alternative Names

B7-H; B7H1; hPD-L1; PDCD1L1; PDCD1LG1; PDL1; programmed cell death 1 ligand 1; CD274 antigen; PDCD1 ligand 1; PD-L1; B7 homolog 1; B7-H1; CD274

Gene ID

29126

UniProt ID

Q9NZQ7

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