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Product Information

MemDX™ Membrane Protein Human CD274 (CD274 molecule, 19-238aa) with C-hFc tag for Antibody Discovery

Cat. No.: **MP1505J**
This product is for research use only and is not intended for diagnostic use.

This product is a 52.7 kDa Human CD274 membrane protein expressed in Mammalian cell. 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 (19-238aa)

Protein Class
Immune Checkpoints

Molecular Weight
52.7 kDa

TMD
1

Sequence
FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKL

Product Description

Activity
Yes

Expression Systems
Mammalian cell

Tag
C-hFc

Form

Liquid or Lyophilized powder

Reconstitution

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration).

Endotoxin

<1.0 EU/μg

Purity

>95% as determined by SDS-PAGE

Buffer

0.2 μm filtered PBS, 6% Trehalose, pH 7.4

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; B7 H; B7 H1; B7 homolog 1; B7-H1; B7H; CD 274; CD274 antigen; CD274 molecule; MGC142294; MGC142296; OTTHUMP00000021029; PD L1; PD-L1; PD1L1_HUMAN; PDCD1 ligand 1; PDCD1L1; PDCD1LG1; PDL 1; PDL1; Programmed cell death 1 ligand 1; Programmed death ligand 1; RGD1566211

Gene ID

29126

UniProt ID

Q9NZQ7

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