

Product Information

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

Cat. No.: **MP1066J**

This product is for research use only and is not intended for diagnostic use.

This product is a 31 kDa Human CD274 membrane protein expressed in Sf9. 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

31 kDa

TMD

1

Sequence

MRIFAVFIFMTYWHLNAFTVTVPKDLVVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKNIIQFVHG
EEDLKVQHSSYRQARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKINQR
ILVVDPTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRINTTTNEIFYCT
FRRLDPEENHTAELVIPELPLAHPPNERHLVILGAILLCLGVALTFIFRLRKGRMMDVKKCGIQDTNSK
KQSDTHLEET

Product Description

Expression Systems

Sf9

Tag

C-DDK

Form

Liquid

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol

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; PDL1; PD-L1; hPD-L1; PDCD1L1; PDCD1LG1

Gene ID

[29126](#)

UniProt ID

[Q9NZQ7](#)