

Product Information

MemDX™ Membrane Protein Human SIGLEC12 (Sialic acid binding Ig like lectin 12) for Antibody Discovery

Cat. No.: **MP0689J**

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

This product is a 63 kDa Human SIGLEC12 membrane protein expressed in HEK293T. 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

SIGLEC12

Protein Length

Full-length

Protein Class

Druggable Genome, Stem cell - Pluripotency, Transmembrane

Molecular Weight

63 kDa

TMD

1

Sequence

MLLLLLLLPPLLCGRVGAKEQKDYLTMQKSVTVQEGLCVSVLCFSYPQNGWTASDPVHGYWFRAGDHV
SRNIPVATNNPARAVQEETRDRFHLLGDPQNKDCTLSIRDTRSDAGTYVFCVERGNMKWNYKYDQLSVN
VTASQDLLSRYRLEVPESTVQEGLCVSVPCSVLYPHYNWTASSPVYGSWFKEGADIPWDIPVATNTPSG
KVQEDTHGRFLLLGDPTNNCSLSIRDARKGDSGKYFQVERGSRKWNYYDKLSVHVLTALHMTFSIP
GTLESGHPRNLTCSPWACEQGTPPTITWMGASVSSLDPTITRSSMLSLIPQPQDHGTSLTQCQVTLPGAG
VTMTRAVRLNISYPQNLTMTVFQGDGTASTTLRNGSALSLEGGQSLHLVCAVDSNPPARLSWTWGSLLT
SPSQSSNLGVLELPRVHVKDEGEFTCRAQNPLGSQHISLSLSLQNEYTGKMRPISGVTLGAFGGAGATAL
VFLYFCIIFVVVRSCRKKSARPAVGVDGTGMEDANAVRGSASQGPLIESPADDSPPHHAPPALATPSPEE
GEIQYASLSFHKARPQYPQEQAIGYEYSEINIPK

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

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

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

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

Target**Target Protein**

SIGLEC12

Full Name

Sialic acid binding Ig like lectin 12

Introduction

Sialic acid-binding immunoglobulin-like lectins (SIGLECs) are a family of cell surface proteins belonging to the immunoglobulin superfamily. They mediate protein-carbohydrate interactions by selectively binding to different sialic acid moieties present on glycolipids and glycoproteins. This gene encodes a member of the SIGLEC3-like subfamily of SIGLECs. Members of this subfamily are characterized by an extracellular V-set immunoglobulin-like domain followed by two C2-set immunoglobulin-like domains, and the cytoplasmic tyrosine-based motifs ITIM and SLAM-like. The encoded protein, upon tyrosine phosphorylation, has been shown to recruit the Src homology 2 domain-containing protein-tyrosine phosphatases SHP1 and SHP2. It has been suggested that the protein is involved in the negative regulation of macrophage signaling by functioning as an inhibitory receptor. This gene is located in a cluster with other SIGLEC3-like genes on 19q13.4. Alternative splicing results in multiple transcript variants.

Alternative Names

S2V; SLG; SIGLECL1; Siglec-XII

Gene ID

[89858](#)

UniProt ID

[Q96PQ1](#)