

Product Information

MemDX™ Membrane Protein Human SEMA4D (Semaphorin 4D, transcript variant 1) for Antibody Discovery

Cat. No.: **MP1250J**

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

This product is a 78.9 kDa Human SEMA4D 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

SEMA4D

Protein Length

Full-length

Protein Class

Druggable Genome, Transmembrane

Molecular Weight

78.9 kDa

TMD

1

Sequence

FAIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNALNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNY

Product Description

Expression Systems

CHO

Tag

Tag Free

Form

Liquid

Endotoxin

< 1 EU/μg

Purity

>95% as determined by SDS-PAGE and Coomassie blue staining

Buffer

0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2

Storage

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

Target**Target Protein**

SEMA4D

Full Name

Semaphorin 4D

Introduction

Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling. Regulates GABAergic synapse development. Promotes the development of inhibitory synapses in a PLXNB1-dependent manner. Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA. Promotes the migration of cerebellar granule cells. Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway.

Alternative Names

A8; GR3; BB18; CD100; COLL4; SEMAJ; coll-4; C9orf164; M-sema-G

Gene ID

[10507](#)

UniProt ID

[Q92854](#)