

Product Information

MemDX™ Membrane Protein Human SEMA4D (Semaphorin 4D)

Cat. No.: **MP0144J**

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

This product is a 96 kDa Human SEMA4D 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

SEMA4D

Protein Length

Full-length

Protein Class

Druggable Genome, Transmembrane

Molecular Weight

96 kDa

TMD

1

Sequence

MRMCTPIRGLLMALAVMFGTAMAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAV
FAVNALNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNYIRVLQPLSATSLYVCGTNAFQPACDHLNL
TSFKFLGKNEDGKGRCPFDPAHSYTSVMVDGELYSGTSYNFLGSEPIISRNSSHSPLRTEYAIPWLNPS
FVFADVIRKSPDSPDGEDDRVYFFFTEVSVVEYEFVFRVLIPRIARVCKGDQGGRLTLQKKWTSFLKARLI
CSRPDSGLVFNVLRDVFLRSPGLKVPVFYALFTPQLNNVGLSAVCAYNLSTAEVFSHGKYMSTTVEQ
SHTKWVRYNGPVPKPRPGACIDSEARAANYTSSLNLPDKTLQFVKDHPLMDDSVTPIDNRPLIKKDVNY
TQIVVDRTQALDGTVDVDMFVSTDRGALHKAISLEHAVHIEETQLFQDFEPVQTLSSSKKGNRFVYAG
SNSGVVQAPLAFCGKHGTCEDCVLARDPYCAWSPPTATCVALHQTESPSRGLIQEMSGDASVCPDKSKGS
YRQHFFKHGGTAEKCSQKSNLARVFWKFQNDVLKAESPKYGLMGRKNLLIFNLSEGDSGVYQCLSEERV
KNKTVFQVVAKHVLEVKVVPKPVVAPTLSSVQTEGSRIATKVLVASTQGSSPPTPAVQATSSGAILPPK
PAPTGTSCPEKIVINTVQLHSEKTMYLKSSDNRLMLSLFLFFVFLCLFFYNKYGYLPRQCLKFRSA
LLIGKKPKSDFCDREQSLKETLVEPGSFSQQNGEHPKALDTGYETEQDTITSKVPTDREDSQRIDDL
ARDKPFVDKCELFADSDADGD

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**

SEMA4D

Full Name

Semaphorin 4D

Introduction

Cell surface receptor for PLXN1B and PLXNB2 that plays an important role in cell-cell signaling. Promotes reorganization of the actin cytoskeleton and plays a role in axonal growth cone guidance in the developing central nervous system. Regulates dendrite and axon branching and morphogenesis. Promotes the migration of cerebellar granule cells and of endothelial cells. Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro). Promotes signaling via SRC and PTK2B/PYK2, which then mediates activation of phosphatidylinositol 3-kinase and of the AKT1 signaling cascade. Interaction with PLXNB1 mediates activation of RHOA.

Alternative Names

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

Gene ID

[10507](#)

UniProt ID

[Q92854](#)