SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human SEMA4D (Semaphorin 4D) expressed in CHO for Antibody Discovery

Cat. No.: **MP0037Q**
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
Partial

Protein Class
Druggable Genome, Transmembrane

Molecular Weight
78.9 kDa

TMD
1

Sequence
FAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNALNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNY

Product Description

Expression Systems
CHO

Tag
Tag Free

Form
Powder

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 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; semaphorin-4D; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4D

Gene ID

10507

UniProt ID

Q92854

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