

Product Information

MemDX™ Membrane Protein Human SEMA6D (Semaphorin 6D) Full Length

Cat. No.: **MPC1581K**

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

This product is a 119.8 kDa Human SEMA6D membrane protein expressed in HEK293. 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

SEMA6D

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

119.8 kDa

TMD

1

Sequence

MRVFLLCAYILLMLMVSQLRVSPEDDEPLNTVDYHYSRQYPVFRGRPSG
NESQHRDLDFQLMLKIRDTLYIAGRDQVYTVNLNEMPKTEVIPNKKLTWRS
RQQDRENCAMKGKHKDECHNFIKVFVPRNDEMVFVCGTNAFNPMCRYRRL
STLEYDGEEISGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYR
SMGDGSALRTIKYDSKWIKEPHFLHAIEYGNVYVFFREIAVEHNNLGKA
VYSRVARICKNDMGGSQRVLEKHWTSLFKARLNCSPVGDSSFFYFDVLQSI
TDIIQINGIPTVVGVFTTQLNSIPGSAVCAFSMDIEKVFKGRFKEQKTP
DSVWTAVPEDKVPKPRPGCCAKHGLAEAYKTSIDFPDETLSEFIKSHPLMD
SAVPPIADEPWFTKTRVRYRLTAISVDHSAGPYQNYTVIFVGSEAGMVLK
VLAKTSPFSLNDSVLLEEIEAYNHAKCSAENEEDKKVISLQLDKDHHALY
VAFSSCIIRIPLSRCERYGSCKKSCIASRDPYCGWLSQGSCGRVTPGMLA
EGYEQDTEFGNTAHLGDCEILPTSTTPDYKIFGGPTSDMEVSSSSVTTM
ASIPEITPKVIDTWRPKLTSSRKFFVQDDPNTSDFTDPLSGIPKGVWREV
QSGESNQMVHMNVLITCVFAAFVLGAFIAGVAVYCYRDMFVRKNRKIHKD
AESAQSDTDSSGSFAKLNGLFDSPVKEYQQNIDSPKLYSNLLTSRKELPP
NGDTKSMVMDHRGQPPELAALPTPESTPVLHQKTLQAMKSHSEKAHGHGA
SRKETPQFFPSSPPPHSPLSHGHIPSAIVLPNATHDYNTSFSNSNAHKAE
KKLQNIHPLTKSSSKRDHRRSVDNRNTLNDLLKHLNDPNSNPKAIMGDI
QMAHQNLMLDPMGSMSEVPPKVPNREASLYSPPSTLPRNSPTKRVDVPTT
PGVPMTSLERQRGYHKNSSQRHSISAMPKNLNSPNGVLLSRQPSMNRGGY
MPTPTGAKVDYIQGTPVSVHLQPSLSRQSSYTSNGTLPRTLKRTPSLKP

DVPPKPSFVPQTPSVRPLNKYTY

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

SEMA6D

Full Name

Semaphorin 6D

Introduction

Semaphorins are a large family, including both secreted and membrane associated proteins, many of which have been implicated as inhibitors or chemorepellents in axon pathfinding, fasciculation and branching, and target selection. All semaphorins possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Additional sequence motifs C-terminal to the semaphorin domain allow classification into distinct subfamilies. Results demonstrate that transmembrane semaphorins, like the secreted ones, can act as repulsive axon guidance cues. This gene encodes a class 6 vertebrate transmembrane semaphorin that demonstrates alternative splicing. Several transcript variants have been identified and expression of the distinct encoded isoforms is thought to be regulated in a tissue- and development-dependent manner.

Alternative Names

SEMA6D; Semaphorin-6D; sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D; KIAA1479; Semaphorin 6D

Gene ID

[80031](#)

UniProt ID

[Q8NFI4](#)