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Datasheet for ABIN7317589 SEMA5A Protein (AA 1-968) (His tag)



Overview

Quantity:	50 µg
Target:	SEMA5A
Protein Characteristics:	AA 1-968
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA5A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Semaphorin 5A/SEMA5A Protein (aa 1-968, His Tag)
Sequence:	Met 1-Met 968
Characteristics:	A DNA sequence encoding the human SEMA5A (NP_003957.2) extracellular domain (Met 1-Met 968) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.

Target Details

Target:	SEMA5A
Alternative Name:	Semaphorin 5A/SEMA5A (SEMA5A Products)
Background:	Background: Semaphorins are secreted, transmembrane, and GPI-linked proteins, defined by

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cysteine-rich semaphorin protein domains, that have important roles in a variety of tissues.
Humans have 20 semaphorins, Drosophila has five, and two are known from DNA viruses.
Semaphorins are found in nematodes and crustaceans but not in non-animals. They are
grouped into eight classes on the basis of phylogenetic tree analyses and the presence of
additional protein motifs. Semaphorins have been implicated in diverse developmental
processes such as axon guidance during nervous system development and regulation of cell
migration. Semaphorin-5A, also known as Semaphorin-F, Sema F, SEMA5A and SEMAF, is a
single-pass type I membrane protein which belongs to the semaphorin family. Semaphorin5A / $% \left({{\left({{{\left({{{\left({{{}}} \right)}} \right)}} \right)}} \right)$
SEMA5A contains one PSI domain, one Sema domain and seven TSP type-1 domains. It may
act as positive axonal guidance cues. Semaphorin5A / SEMA5A is an axon regulator molecule
and plays major roles during neuronal and vascular development. It plays an essential role in
embryonic development. Semaphorin5A / SEMA5A induces endothelial cell migration from pre-
existing vessels. It also plays a role in autism, reducing the ability of neurons to form
connections with other neurons in certain brain regions.
Synonym: Semaphorin-5A; Semaphorin-F; Sema F; SEMA5A; SEMAF

Molecular Weight:	107 kDa
NCBI Accession:	NP_003957

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	samples are stable at < -20°C for 3 months.

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