Datasheet for ABIN7121293

SEMA3A Protein (Fc Tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	SEMA3A
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA3A protein is labelled with Fc Tag.

Product Details

Purpose:	Human Semaphorin 3A / SEMA3A Protein, Fc Tag (MALS verified)
Sequence:	Lys 26 - Val 771
Characteristics:	Human Semaphorin 3A, Fc Tag (SEA-H5259) is expressed from human 293 cells (HEK293). It contains AA Lys 26 - Val 771 (Accession # Q14563-1 (R551A, R555A, R730A, K731A, R733A, R734A, R757A, R760A).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	MALS verified

Target Details

Target:	SEMA3A
Alternative Name:	Semaphorin 3A / SEMA3A (SEMA3A Products)

Target Details

Background:	Synonyms: Semaphorin 3A,(semaphorin) 3A,coll-1,collapsin 1,Hsema-I,Hsema-III,MGC133243,sema domain,immunoglobulin domain (Ig),short basic domain,secreted,Sema III,SEMA1, Sema3A,SEMAD,SEMAIII,SEMAL,Semaphorin 3A,semaphorin D,Semaphorin III,semaphorin L,semaphorin-3A, Description: Semaphorin-3A (SEMA3A) is also known as Semaphorin III, which belongs to the semaphorin family. SEMA3A contains 1 Ig-like C2-type (immunoglobulin-like) domain, one PSI domain amd one sema domain. Semaphorin-3A is a secreted proteins, or chemorepulser, secreted by surrounding tissues to guide migrating cells and axons in the developing nervous system of an organism which is critical for the precise formation of neurons and vasculature. SEMA3A can function as either a chemorepulsive agent, inhibiting axonal outgrowth, or as a chemoattractive agent, stimulating the growth of apical dendrites. In both cases, the protein is vital for normal neuronal pattern development. Increased expression of SEMA3A is associated with schizophrenia and is seen in a variety of human tumor cell lines. Also, aberrant release of this protein is associated with the progression of Alzheimer's disease.
Molecular Weight:	111.8 kDa
NCBI Accession:	NP_006071
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	This protein carries a human IgG1 Fc tag at the N-terminus. The protein has a calculated MW of 111.8 kDa. The protein migrates as kDa under reducing (R) condition due to glycosylation.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C
Storage Comment:	-20°C