Datasheet for ABIN2181737

Sema4a Protein (AA 33-683) (His tag)

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Overview

Quantity:	100 µg
Target:	Sema4a
Protein Characteristics:	AA 33-683
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sema4a protein is labelled with His tag.

Product Details

Sequence:	AA 33-683
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 72.7 kDa. The protein migrates as 70-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	Sema4a
Alternative Name:	Semaphorin 4A (Sema4a Products)

Target Details

Background:	Semaphorin-4A (SEMA4A) is also known as Semaphorin-B (SEMAB), which belongs to the semaphorin family. SEMA4A contains one Ig-like C2-type (immunoglobulin-like) domain, one PSI domain and one sema domain. SEMA4A is cell surface receptor for PLXNB1, PLXNB2, PLXNB3 and PLXND1 that plays an important role in cell-cell signaling. SEMA4A plays a role in priming antigen-specific T-cells, promotes differentiation of Th1 T-helper cells, and thereby contributes to adaptive immunity. SEMA4A also promotes phosphorylation of TIMD2 and inhibits angiogenesis. SEMA4A promotes axon growth cone collapse and inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons.
Molecular Weight:	72.7 kDa

Application Details

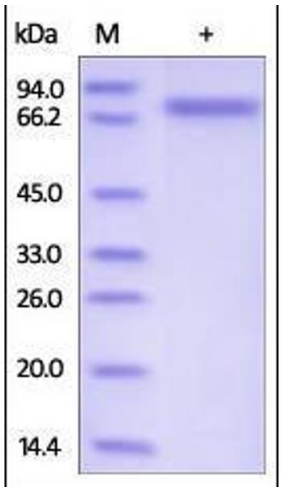
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

Publications

Product cited in:	McGonigle, Majumder, Kolber-Simonds, Wu, Hart, Noland, TenDyke, Custar, Li, Du, Postema, Lai, Twine, Woodall-Jappe, Nomoto: "Neuropilin-1 drives tumor-specific uptake of chlorotoxin." in: **Cell communication and signaling : CCS**, Vol. 17, Issue 1, pp. 67, (2019) (PubMed).



SDS-PAGE

Image 1. Human Semaphorin 4A, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.