

Datasheet for ABIN3131564 SEMA6A Protein (AA 19-1031) (rho-1D4 tag)



Overview

Quantity:	1 mg
Target:	SEMA6A
Protein Characteristics:	AA 19-1031
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA6A protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	GFPEDSEPIS ISHGNYTKQY PVFVGHKPGR NTTQRHRLDI QMIMIMNRTL YVAARDHIYT
	VDIDTSHTEE IYCSKKLTWK SRQADVDTCR MKGKHKDECH NFIKVLLKKN DDTLFVCGTN
	AFNPSCRNYR VDTLETFGDE FSGMARCPYD AKHANIALFA DGKLYSATVT DFLAIDAVIY
	RSLGDSPTLR TVKHDSKWLK EPYFVQAVDY GDYIYFFFRE IAVEYNTMGK VVFPRVAQVC
	KNDMGGSQRV LEKQWTSFLK ARLNCSVPGD SHFYFNILQA VTDVIRINGR DVVLATFSTP
	YNSIPGSAVC AYDMLDIANV FTGRFKEQKS PDSTWTPVPD ERVPKPRPGC CAGSSSLEKY
	ATSNEFPDDT LNFIKTHPLM DEAVPSIINR PWFLRTMVRY RLTKIAVDNA AGPYQNHTVV
	FLGSEKGIIL KFLARIGSSG FLNGSLFLEE MNVYNPEKCS YDGVEDKRIM GMQLDRASGS
	LYVAFSTCVI KVPLGRCERH GKCKKTCIAS RDPYCGWVRE SGSCAHLSPL SRLTFEQDIE
	RGNTDGLGDC HNSFVALNGH ASSLYPSTTT SDSASRDGYE SRGGMLDWND LLEAPGSTDP
	LGAVSSHNHQ DKKGVIRESY LKSNDQLVPV TLLAIAVILA FVMGAVFSGI IVYCVCDHRR
	KDVAVVQRKE KELTHSRRGS MSSVTKLSGL FGDTQSKDPK PEAILTPLMH NGKLATPSNT

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	AKMLIKADQH HLDLTALPTP ESTPTLQQKR KPNRGSREWE RNQNIINACT KDMPPMGSPV
	IPTDLPLRAS PSHIPSVVVL PITQQGYQHE YVDQPKMSEV VAQMALEDQA ATLEYKTIKE
	HLSSKSPNHG VNLVENLDSL PPKVPQREAS LGPPGTSLSQ TGLSKRLEMQ HSSSYGLEYK
	RSYPTNSLTR SHQTTTLKRN NTNSSNSSHL SRNQSFGRGD NPPPAPQRVD SIQVHSSQPS
	GQAVTVSRQP SLNAYNSLTR SGLKRTPSLK PDVPPKPSFA PLSTSMKPND ACT
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Sema6a Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with
	different detergents (detergent screen). Samples are analyzed by Western blot.
	2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are applyzed by Western blot
	fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step

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Product Details

	through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	SEMA6A
Alternative Name:	Sema6a (SEMA6A Products)
Background:	Cell surface receptor for PLXNA2 that plays an important role in cell-cell signaling. Required for
	normal granule cell migration in the developing cerebellum. Promotes reorganization of the
	actin cytoskeleton and plays an important role in axon guidance in the developing central
	nervous system. Can act as repulsive axon guidance cue. Has repulsive action towards
	migrating granular neurons. May play a role in channeling sympathetic axons into the
	sympathetic chains and controlling the temporal sequence of sympathetic target innervation.
	{ECO:0000269 PubMed:16205717, ECO:0000269 PubMed:19063725,
	ECO:0000269 PubMed:20877282, ECO:0000269 PubMed:20881961}.
Molecular Weight:	113.8 kDa Including tag.
UniProt:	035464
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

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Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)