antibodies

Datasheet for ABIN3135515 Sema4a Protein (AA 33-760) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg	
Target:	Sema4a	
Protein Characteristics:	AA 33-760	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This Sema4a protein is labelled with rho-1D4 tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	

Product Details

Sequence:	TGGQGPMPRV KYHAGDGHRA LSFFQQKGLR DFDTLLLSDD GNTLYVGARE AVLALNIQNP
	GIPRLKNMIP WPASERKKTE CAFKKKSNET QCFNFIRVLV SYNATHLYAC GTFAFSPACT
	FIELQDSLLL PILIDKVMDG KGQSPFDPVH KHTAVLVDGM LYSGTMNNFL GSEPILMRTL
	GSQPVLKTDI FLRWLHADAS FVAAIPSTQV VYFFFEETAS EFDFFEELYI SRVAQVCKND
	VGGEKLLQKK WTTFLKAQLL CAQPGQLPFN IIRHAVLLPA DSPSVSRIYA VFTSQWQVGG
	TRSSAVCAFS LTDIERVFKG KYKELNKETS RWTTYRGSEV SPRPGSCSMG PSSDKALTFM
	KDHFLMDEHV VGTPLLVKSG VEYTRLAVES ARGLDGSSHV VMYLGTSTGS LHKAVVPQDS
	SAYLVEEIQL SPDSEPVRNL QLAPAQGAVF AGFSGGIWRV PRANCSVYES CVDCVLARDP
	HCAWDPESRL CSLLSGSTKP WKQDMERGNP EWVCTRGPMA RSPRRQSPPQ LIKEVLTVPN
	SILELPCPHL SALASYHWSH GRAKISEASA TVYNGSLLLL PQDGVGGLYQ CVATENGYSY
	PVVSYWVDSQ DQPLALDPEL AGVPRERVQV PLTRVGGGAS MAAQRSYWPH FLIVTVLLAI
	VLLGVLTLLL ASPLGALRAR GKVQGCGMLP PREKAPLSRD QHLQPSKDHR TSASDVDADN

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	NHLGAEVA 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 Sema4a 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:	
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 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 analyzed by Western blot. 	
	 Protein containing fractions of the best purification are subjected to second purification step 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	

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Product Details	
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	Sema4a	
Alternative Name:	Sema4a (Sema4a Products)	
Background:	Cell surface receptor for PLXNB1, PLXNB2, PLXNB3 and PLXND1 that plays an important role in	
	cell-cell signaling. Plays a role in priming antigen-specific T-cells, promotes differentiation of	
	Th1 T-helper cells, and thereby contributes to adaptive immunity. Promotes phosphorylation of	
	TIMD2. Inhibits angiogenesis. Promotes axon growth cone collapse. Inhibits axonal extension	
	by providing local signals to specify territories inaccessible for growing axons.	
	{ECO:0000269 PubMed:12374982, ECO:0000269 PubMed:15780988,	
	ECO:0000269 PubMed:17318185, ECO:0000269 PubMed:20043131}.	
Molecular Weight:	81.1 kDa Including tag.	
UniProt:	Q62178	
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	
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	

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 Storage Comment:
 Store at -80°C.

 Expiry Date:
 Unlimited (if stored properly)

Images

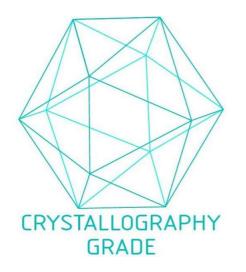


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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