antibodies

Datasheet for ABIN3094670 Plexin A1 Protein (PLXNA1) (AA 27-1244) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Plexin A1 (PLXNA1)
Protein Characteristics:	AA 27-1244
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Plexin A1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	EAGLPRAGGG SQPPFRTFSA SDWGLTHLVV HEQTGEVYVG AVNRIYKLSG NLTLLRAHVT
	GPVEDNEKCY PPPSVQSCPH GLGSTDNVNK LLLLDYAANR LLACGSASQG ICQFLRLDDL
	FKLGEPHHRK EHYLSSVQEA GSMAGVLIAG PPGQGQAKLF VGTPIDGKSE YFPTLSSRRL
	MANEEDADMF GFVYQDEFVS SQLKIPSDTL SKFPAFDIYY VYSFRSEQFV YYLTLQLDTQ
	LTSPDAAGEH FFTSKIVRLC VDDPKFYSYV EFPIGCEQAG VEYRLVQDAY LSRPGRALAH
	QLGLAEDEDV LFTVFAQGQK NRVKPPKESA LCLFTLRAIK EKIKERIQSC YRGEGKLSLP
	WLLNKELGCI NSPLQIDDDF CGQDFNQPLG GTVTIEGTPL FVDKDDGLTA VAAYDYRGRT
	VVFAGTRSGR IRKILVDLSN PGGRPALAYE SVVAQEGSPI LRDLVLSPNH QYLYAMTEKQ
	VTRVPVESCV QYTSCELCLG SRDPHCGWCV LHSICSRRDA CERADEPQRF AADLLQCVQL
	TVQPRNVSVT MSQVPLVLQA WNVPDLSAGV NCSFEDFTES ESVLEDGRIH CRSPSAREVA
	PITRGQGDQR VVKLYLKSKE TGKKFASVDF VFYNCSVHQS CLSCVNGSFP CHWCKYRHVC
	THNVADCAFL EGRVNVSEDC PQILPSTQIY VPVGVVKPIT LAARNLPQPQ SGQRGYECLF

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	HIPGSPARVT ALRFNSSSLQ CQNSSYSYEG NDVSDLPVNL SVVWNGNFVI DNPQNIQAHL
	YKCPALRESC GLCLKADPRF ECGWCVAERR CSLRHHCAAD TPASWMHARH GSSRCTDPKI
	LKLSPETGPR QGGTRLTITG ENLGLRFEDV RLGVRVGKVL CSPVESEYIS AEQIVCEIGD
	ASSVRAHDAL VEVCVRDCSP HYRALSPKRF TFVTPTFYRV SPSRGPLSGG TWIGIEGSHL
	NAGSDVAVSV GGRPCSFSWR NSREIRCLTP PGQSPGSAPI IININRAQLT NPEVKYNYTE
	DPTILRIDPE WSINSGGTLL TVTGTNLATV REPRIRAKYG GIERENGCLV YNDTTMVCRA
	PSVANPVRSP PELGERPDEL GFVMDNVRSL LVLNSTSFLY YPDPVLEPLS PTGLLELKPS
	SPLILKGRNL LPPAPGNSRL NYTVLIGSTP CTLTVSETQL LCEAPNLTGQ HKVTVRAGGF
	EFSPGTLQVY SDSLLTLP
	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. Human PLXNA1 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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate

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	fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. 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:	Plexin A1 (PLXNA1)
Alternative Name:	PLXNA1 (PLXNA1 Products)
Background:	Coreceptor for SEMA3A, SEMA3C, SEMA3F and SEMA6D. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin. The plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic domain is required for the activation of down-stream signaling events in the cytoplasm (By similarity). {ECO:0000250}.
Molecular Weight:	134.9 kDa Including tag.
UniProt:	Q9UIW2
Pathways:	Smooth Muscle Cell Migration
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:	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)

Images

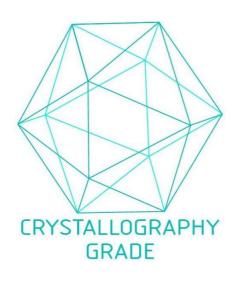


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process