antibodies

## Datasheet for ABIN3136023 Plexin A4 Protein (PLXNA4) (AA 24-1236) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Plexin A4 (PLXNA4)
Protein Characteristics:	AA 24-1236
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Plexin A4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Crystallization (Crys), ELISA, Western Blotting (WB)

## Product Details

Sequence:	TLLPRQPPQL SQKPSFVTFR GEPAEGFNHL VVDERTGHIY LGAVNRIYKL SSDLKVLVTH
	QTGPDEDNPK CYPPRIVQTC NEPLASTNNV NKMLLIDYKE NRLIACGSLY QGICKLLRLE
	DLFKLGEPFH KKEHYLSGVN ESGSVFGVIV SYSNFDDKLF IATAVDGKPE YFPTISSRKL
	TKNSEADGMF AYVFHDEFVA SMIKIPSDTF TVIPDFDIYY VYGFSSGNFV YFLTLQPEMV
	SPPGSTTKEQ VYTSKLVRLC KEDTAFNSYV EVPIGCERNG VEYRLLQAAY LSKAGAVLGR
	TLGVRPDDDL LFTVFSKGQK RKMKSLDESA LCIFILKQIN DRIKDRLQSC YRGEGTLDLA
	WLKVKDIPCS SALLTIDDNF CGLDMNAPLG VSEMVRGIPV FTEDRDRMTS VIAYVYKNHS
	LAFVGTKSGK LKKIRVDGPK GNALQYETVQ VVDSGPVLRD MAFSKDHEQL YIMSERQLTR
	VPVESCGQYR SCGECLGSGD PHCGWCVLHN TCTRKERCER SREPRRFASE MKQCVRLTVH
	PNNISVSQYN VLLVLETYNV PELSAGVNCT FEDLSEMDGL VIGNQIQCYS PAAKEVPRII
	TENGDHHVVQ LQLKSKETGM TFASTSFVFY NCSVHNSCLS CVESPYRCHW CKYRHVCTHD
	PNTCSFQEGR VKLPEDCPQL LRVDKILVPV EVIKPITLKA KNLPQPQSGQ RGYECILNIQ

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	GIEQRVPALR FNSSSVQCQN TSYSYEGMEI NNLPVELTVV WNGHFNIDNP AQNKVYLYKC
	GAMRESCGLC LKADPDFECG WCQSPGQCTL RQHCPAHESR WLELSGANSK CTNPRITEII
	PVTGPREGGT KVTIRGENLG LEFRDIASHV KVAGVECSPL VDGYIPAEQI VCEMGEAKPS
	QHAGFVEICV AVCRPEFMAR SSQLYYFMTL TLADLKPNRG PMSGGTQVTI TGTNLNAGSN
	VVVMFGSQPC LFHRRSPSYI ICNTTSSEEV LDMKVTVQVD RARIRQDLVF QYVEDPTIVR
	IEPEWSIVSG NTPIAVWGTH LDLIQNPQIR AKHGGKEHIN ICEVLNATEM TCQAPALALG
	PDHQSDLTER PEEFGFILDN VQSLLILNKT NFTYYPNPVF EAFSPSGILE LKPGTPIILK
	GKNLIPPVAG GNVKLNYTVL VGEKPCTVTV SDVQLLCESP NLIGRHKVMA RVGGMEYSPG
	MVYIAPDSPL SLP
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Plxna4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>
	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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	<ul> <li>fractions are analyzed by SDS-PAGE.</li> <li>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.</li> </ul>
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 A4 (PLXNA4)
Alternative Name:	Plxna4 (PLXNA4 Products)
Background: Molecular Weight: UniProt:	<ul> <li>Coreceptor for SEMA3A. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance in the developing nervous system. 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. {ECO:0000269 PubMed:12591607, ECO:0000269 PubMed:18262512}.</li> <li>136.1 kDa Including tag.</li> </ul>
Pathways:	Regulation of Cell Size
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

Restrictions:

For Research Use only

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options with you in detail to assure that you receive your protein of interest.

## 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

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