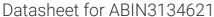
# antibodies .- online.com





# Plexin A1 Protein (PLXNA1) (AA 28-1242) (His tag)



**Image** 



### Overview

Quantity:	1 mg
Target:	Plexin A1 (PLXNA1)
Protein Characteristics:	AA 28-1242
Origin:	Mouse
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:

SPPAGLGPQP AFRTFVASDW GLTHLVVHEQ TGEVYVGAVN RIYKLSGNLT LLRAHVTGPV
EDNEKCYPPP SVQSCPHGLG STDNVNKLLL LDYAANRLLA CGSASQGICQ FLRLDDLFKL
GEPHHRKEHY LSSVREAGSM AGVLIAGPPG QGQAKLFVGT PIDGKSEYFP TLSSRRLMAN
EEDADMFGFV YQDEFVSSQL KIPSDTLSKF PAFDIYYVYS FRSEQFVYYL TLQLDTQLTS
PDAAGEHFFT SKIVRLCVND PKFYSYVEFP IGCEQAGVEY RLVQDAYLSR PGQALAKQLG
LAEDEEVLFT VFAQGQKNRV KPPKESALCL FTLRAIKEKI KERIQSCYRG EGKLSLPWLL
NKELGCINSP LQIDDDFCGQ DFNQPLGGTV TIEGTPLFVD KEDGLTAVAA YDYQGRTVVF
AGTRSGRIRK ILVDLANPSG RPALAYESVV AQEGNPILRD LVLSPNRQYL YAMTEKQVTQ
VPVESCVQYT SCELCLGSRD PHCGWCVLHS ICSRQDACER AEEPQRFASD LLQCVQLTVQ
PRNVSVTMSQ VPLVLQAWNV PDLSAGVNCS FEDFTETESI LEDGRIHCHS PSAREVAPIT
QGQGDQRVVK LYLKSKETGK KFASVDFVFY NCSVHQSCLA CVNGSFPCHW CKYRHVCTNN
AADCAFLEGR VNMSEDCPQI LPSTHIYVPV GVVKPITLAA RNLPQPQSGQ RGYECLFHIP

GSPARVTALR FNSSSLQCQN SSYSYEGNDV SDLPVNLSVV WNGNFVIDNP QNIQAHLYKC PALRQSCGLC LKADPRFECG WCVAERRCSL RHHCPADSPA SWMHAHHGSS RCTDPKILKL SPETGPRQGG TRLTITGENL GLRFEDVRLG VHVGKVLCSP VESEYISAEQ IVCEIGDAST LRAHDALVEV CVRDCSLHYR ALSPKRFTFV TPTFYRVSPS RGPLSGGTWI GIEGSHLNAG SDVAVSIGGR PCSFSWRNSR EIRCLTPPGH TPGSAPIVIN INRAQLSNPE VKYNYTEDPT ILRIDPEWSI NSGGTLLTVT GTNLATVREP RIRAKYGGIE RENSCMVYND TTMVCRAPSI DNPKRSPPEL GERPDEIGFI MDNVRTLLVL NSSSFLYYPD PVLEPLSPTG LLELKPSSPL ILKGRNLLPP APGNSRLNYT VLIGSTPCIL TVSETQLLCE APNLTGQHKV TVRAGGFEFS PGMLQVYSDS LLTLP

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 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:

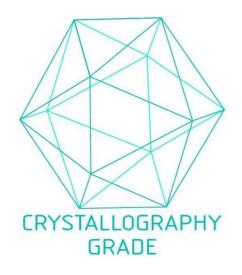
1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate

Troduct Details	
	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. {ECO:0000269 PubMed:10520994, ECO:0000269 PubMed:10781943}.
Molecular Weight:	134.8 kDa Including tag.
UniProt:	P70206
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:	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.

## **Application Details**

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
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