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Datasheet for ABIN3134623

**Plexin A2 Protein (Plxna2) (AA 35-1237) (His tag)**

## Overview

Quantity:	1 mg
Target:	Plexin A2 (Plxna2)
Protein Characteristics:	AA 35-1237
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Plexin A2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	MPQYSTFHSE NRDWTFNHLT VHRRTGAVYV GAINRVYKLT GNLTIQVAHK TGPEEDNKAC YPPLIVQPCS EVLTLTNNVN KLLIIDYSEN RLLACGSLYQ GVCKLLRLDD LFILVEPSHK KEHYLSSVNK TGTMYGVIVR SEGEDGKLFI GTAVDGKQDY FPTLSSRKLP RDPRESSAMLD YELHSDFVSS LIKIPSDTLA LVSHFDIFYI YGFASGGFVY FLTVQPETPD GMAINSAGDL FYTSRIVRLC KDDPKFHSYV SLPFGCTRAG VEYRLLQAAY LAKPGEALAQ AFNISSDEDV LFAIFSKGQK QYHHPDSDA LCAFPRAIN LQIKERLQSC YHGEGNLELN WLLGKDVQCT KAPVPIDDNF CGLDINQPLG GSTPVEGLTL YTTSRDRLTS VASYVYNGYS VVFVGTKSGK LKKIRADGPP HGGVQYEMVS VFKDGSPILR DMAFSINQLY LYVMSEKQVT RVPVESCEQY TTCGECLSSG DPHCGWALH NMCSRRDKCQ RAWEANRFAA SISQCMSLEV HPNSISVSDH SRLLSLVVND APNLSEGIAC AFGNLTEVEG QVSGSQVICI SPGPKDVPVI PLDQDWFGL LQLRSKETGK IFVSTEFKPY NCSAHLCLLS CVNSAFRCHW CKYRNLC THD PTTCSFQEG INVEDCPQL VPTEEILIPV GEVKPITLKA RNLPQPQSGQ RGYECVLSIQ GAVHRVPALR
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FNSSSVQCQN SSYQYDGMDI SNLAVDFAVV WNGNFIIDNP QDLKVHLYKC AAQRESCGLC  
LKADHKFECG WCSGERRCTL HQHCPSTSSP WLDWSSHNVK CSNPQITEIL TVSGPPEGGT  
RVTIHGVNLG LDFSEIAHHV QVAGVPCTPI PGEYIIAEQI VCEMGHAVIG TTSGPVRLCI  
GECKPEFMTK SHQQYTFVNP SVLSLSPIRG PESGGTMVTI TGHYLGAGSS VAVYLGNTQC  
EFYGRSMNEI VCVSPSSNG LGPVPVSVSV DRARVDSSLQ FEYIDDPVQ RIEPEWSITS  
GHTPLTITGF NLDVIQEPRV RVKFNKESV NVCTVNTTT LTCLAPSLTS DYRPGLDTVE  
RPDEFGFLFN NVQSLLIYND TKFIYYPNPT FELLSPGIL DQKPGSPIIL KGKNLCPAS  
GGAKLNYTVM IGETPCTVTV SETQLLCEPP NLTGQHKVMV HVGGMVFSFG SVSVISDSLL TLP

**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 Plxna2 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 receipt 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 fractions are analyzed by SDS-PAGE.

## Product Details

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 A2 (Plxna2)
Alternative Name:	Plxna2 ( <a href="#">Plxna2 Products</a> )
Background:	Coreceptor for SEMA3A and SEMA6A. Necessary for signaling by SEMA6A and 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, ECO:0000269 PubMed:20877282}.
Molecular Weight:	133.3 kDa Including tag.
UniProt:	<a href="#">P70207</a>

## 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 guarantee 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

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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)