Datasheet for ABIN3135043

PLXND1 Protein (AA 49-1271) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	PLXND1
Protein Characteristics:	AA 49-1271
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLXND1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	LEIQRRFPSP TPTNNFALDG TAGTVYLAAV NRLYQLSSAN LSLEAEATVG PVPDSPLCHA PQLPQASCEH PRRLTDNYNK ILQLDPGQGL VVACGSIYQG LCQLRRRGNI SALAVSFPPA APTAEPVTVF PSMLNVAANH PNASTVGLVL PPTSGTGGSR LLVGATYTGF GSAFFPRNRS LEDHRFENTP EIAIRSLDAR GDLAKLFTFD LNPSDDNILK IKQGAKEQHK LGFVRAFLHP AVPPHSAQPY AYLALNSEAR AGDKDSQARS LLARICLPRG AGGDAKKLTE SYIQLGLQCA GGAGRGDLYS RLVSVFPARE QFFAVFERPQ GAPGARNAPA ALCAFRFDDV QAAIRAARTA CFVEPAPDVV AVLDSVVQGT GPACESKRNI QLQPEQLDCG AAHLQHPLTI LQPLRASPVF RAPGLTAVAV ASANNYTAVF LGTATGRLLK ISLNESMQVV SRRVLTVAYG EPVHHVMQFD PMDPGYLYLM TSHQMARVKV AACEVHSTCG DCVGAADAYC GWCTLETRCT LQQDCTNSSQ PHFWTSASEG PSRCPAMTVL PSEIDVHRDY TGMILQISGS LPSLSGMEMA CDYGNGVRTV ARVPGPAYDH QIAYCNLLPR AQFPSFPAGQ DHVTVEMSVR VKGHNIVSAN FTIYDCSRIG QVYPHTACTS CLSTQWPCSW CIQLHSCVSN QSQCQDSPNP TSPQDCPQIL PSPLAPVPTG

	GSQDILVPLT KATFFHGSSL ECSFGLEESF EAVWANNSLV RCNQVVLHTT QKSQVFPLSL KLKGPPDRFL DSPNPMTVVV YNCAMGSPDC SQCLGREDLG HLCVWNDGCR LRGPLQPLPG TCPAPEIRAI EPLSGPLDGG TLLTIRGRNL GRRLSDVAHG VWIGSVACEP LADRYTVSEE IVCATGPAAG AFSDVVTVNV SKEGRSREQF SYVLPTVHSL EPSMGPKAGG TRITIHGSDL NVGSMLQVLV NDTDPCTDLT RTATSITCTV PGGTLPSPVP VCVRFESRGC VHGNLTFWYM QNPVITAISP GRSPVSGGRT ITVAGERFHM VQNVSMAVHH IGREPTFCKV LNSTLITCPS PGALSNASAP VDFFINGRAY ADEAAEELLD PAEAQRGSRF RLDYLPNPQF STAKREKWIK HHPGEPLTLV IHKEQDSLGL ESHEYHIKIG QVSCDIQIIS DRVIHCSVNE SLGTAEGQLP ITIQVGNFNQ TIATLQLGGS ETA **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 Plxnd1 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

Product 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:	PLXND1
Alternative Name:	Plxnd1 (PLXND1 Products)
Background:	Cell surface receptor for SEMA4A and for class 3 semaphorins, such as SEMA3A, SEMA3C and SEMA3E. Plays an important role in cell-cell signaling, and in regulating the migration of a wide spectrum of cell types. Regulates the migration of thymocytes in the medulla. Regulates endothelial cell migration. Plays an important role in ensuring the specificity of synapse formation. Mediates anti-angiogenic signaling in response to SEMA3E. Required for normal development of the heart and vasculature. {ECO:0000269|PubMed:15239958, ECO:0000269|PubMed:17318185, ECO:0000269|PubMed:18992737, ECO:0000269|PubMed:19027330, ECO:0000269|PubMed:19421194, ECO:0000269|PubMed:22179111}.
Molecular Weight:	132.3 kDa Including tag.
UniProt:	Q3UH93

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