antibodies .- online.com





Plexin B2 Protein (PLXNB2) (AA 1223-1842) (His tag)





Go to Product page

Overview

Quantity:	1 mg
Target:	Plexin B2 (PLXNB2)
Protein Characteristics:	AA 1223-1842
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Plexin B2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

CYWRKSQQAE REYEKIKSQL EGLEESVRDR CKKEFTDLMI EMEDQTNDVH EAGIPTLDYK
TYTDRVFFLP SKDGDKDVMI TGKLDIPESR RPIVEQALYQ FSNLLNSKSF LINFIHTLEN
QREFSARAKV YFASLLTVAL HGKLEYYTDI MRTLFLELME QYVVAKNPKL MLRRSETVVE
RMLSNWMSIC LYQYLKDSAG EPLYKLFKAI KHQVEKGPVD AVQKKAKYTL NDTGLLGDDV
EYAPLTVSVI VQDEGIDAIP VKVLNCDTIS QVKEKIIDQV YRTQPCSCWP KPDSVVLEWR
PGSTAQILSD LDLTSQREGR WKRINTLMHY NVRDGATLIL SKVGVSQQPE DSQQDLPGER
HALLEEENRV WHLVRPTDEV DEGKSKRGSM KEKERTKAIT EIYLTRLLSV KGTLQQFVDN
FFQSVLAPGH AVPPAVKYFF DFLDEQAEKH DIRDEDTIHI WKTNSLPLRF WVNILKNPHF
IFDVHVHEVV DASLSVIAQT FMDACTRTEH KLSRDSPSNK LLYAKEISTY KKMVEDYYKG
IRQMVQVSDQ DMNTHLAEIS RAHTDSLNTL VALHQLYQYT QKYYDEIINA LEEDPAAQKM
QLAFRLQQIA AALENKVTDL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Product Details special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Mouse Plxnb2 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 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.

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: 0.22 µm filtered Sterility: Endotoxin Level: Protein is endotoxin free. Grade: Crystallography grade

Target Details

Target:	Plexin B2 (PLXNB2)
Alternative Name:	Plxnb2 (PLXNB2 Products)
Background:	Cell surface receptor for SEMA4C, SEMA4D and SEMA4G that plays an important role in cell-
	cell signaling. Binding to class 4 semaphorins promotes downstream activation of RHOA and
	phosphorylation of ERBB2 at 'Tyr-1248'. Required for normal differentiation and migration of
	neuronal cells during brain corticogenesis and for normal embryonic brain development.
	Regulates the migration of cerebellar granule cells in the developing brain. Plays a role in RHOA
	activation and subsequent changes of the actin cytoskeleton. Plays a role in axon guidance,
	invasive growth and cell migration. May modulate the activity of RAC1 and CDC42. Down-
	regulates macrophage migration in wound-healing assays (in vitro).
	{ECO:0000269 PubMed:17554007, ECO:0000269 PubMed:19948886,
	ECO:0000269 PubMed:21122816, ECO:0000269 PubMed:21966369}.
Molecular Weight:	72.8 kDa Including tag.
UniProt:	B2RXS4
Pathways:	Tube Formation
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.
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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

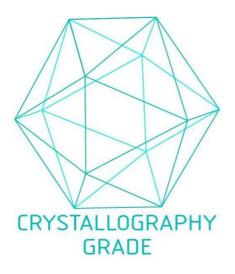


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process