antibodies

## Datasheet for ABIN3094716 Plexin B2 Protein (PLXNB2) (AA 1219-1838) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Plexin B2 (PLXNB2)
Protein Characteristics:	AA 1219-1838
Origin:	Human
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 EAGIPVLDYK
	TYTDRVFFLP SKDGDKDVMI TGKLDIPEPR RPVVEQALYQ FSNLLNSKSF LINFIHTLEN
	QREFSARAKV YFASLLTVAL HGKLEYYTDI MHTLFLELLE QYVVAKNPKL MLRRSETVVE
	RMLSNWMSIC LYQYLKDSAG EPLYKLFKAI KHQVEKGPVD AVQKKAKYTL NDTGLLGDDV
	EYAPLTVSVI VQDEGVDAIP VKVLNCDTIS QVKEKIIDQV YRGQPCSCWP RPDSVVLEWR
	PGSTAQILSD LDLTSQREGR WKRVNTLMHY NVRDGATLIL SKVGVSQQPE DSQQDLPGER
	HALLEEENRV WHLVRPTDEV DEGKSKRGSV KEKERTKAIT EIYLTRLLSV KGTLQQFVDN
	FFQSVLAPGH AVPPAVKYFF DFLDEQAEKH NIQDEDTIHI 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

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## Product Details

	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human PLXNB2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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:
	<ol> <li>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.</li> </ol>
	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

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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) (By similarity).	
	{ECO:0000250, ECO:0000269 PubMed:12183458, ECO:0000269 PubMed:12533544,	
	ECO:0000269 PubMed:15184888}.	
Molecular Weight:	72.6 kDa Including tag.	
UniProt:	015031	
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:	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		
Handling Format:	Liquid	
-	Liquid 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Format:		

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 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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