antibodies

## Datasheet for ABIN3110363 Plexin C1 Protein (PLXNC1) (AA 35-1568) (rho-1D4 tag)



Overview

Image

-	
Quantity:	1 mg
Target:	Plexin C1 (PLXNC1)
Protein Characteristics:	AA 35-1568
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Plexin C1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	ADEPVWRSEQ AIGAIAASQE DGVFVASGSC LDQLDYSLEH SLSRLYRDQA GNCTEPVSLA
	PPARPRPGSS FSKLLLPYRE GAAGLGGLLL TGWTFDRGAC EVRPLGNLSR NSLRNGTEVV
	SCHPQGSTAG VVYRAGRNNR WYLAVAATYV LPEPETASRC NPAASDHDTA IALKDTEGRS
	LATQELGRLK LCEGAGSLHF VDAFLWNGSI YFPYYPYNYT SGAATGWPSM ARIAQSTEVL
	FQGQASLDCG HGHPDGRRLL LSSSLVEALD VWAGVFSAAA GEGQERRSPT TTALCLFRMS
	EIQARAKRVS WDFKTAESHC KEGDQPERVQ PIASSTLIHS DLTSVYGTVV MNRTVLFLGT
	GDGQLLKVIL GENLTSNCPE VIYEIKEETP VFYKLVPDPV KNIYIYLTAG KEVRRIRVAN
	CNKHKSCSEC LTATDPHCGW CHSLQRCTFQ GDCVHSENLE NWLDISSGAK KCPKIQIIRS
	SKEKTTVTMV GSFSPRHSKC MVKNVDSSRE LCQNKSQPNR TCTCSIPTRA TYKDVSVVNV
	MFSFGSWNLS DRFNFTNCSS LKECPACVET GCAWCKSARR CIHPFTACDP SDYERNQEQC
	PVAVEKTSGG GRPKENKGNR TNQALQVFYI KSIEPQKVST LGKSNVIVTG ANFTRASNIT
	MILKGTSTCD KDVIQVSHVL NDTHMKFSLP SSRKEMKDVC IQFDGGNCSS VGSLSYIALP

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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.
- Human PLXNC1 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.

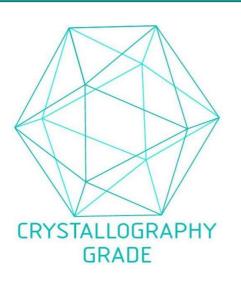
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	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
	cells:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with
	different detergents (detergent screen). Samples are analyzed by Western blot.
	2. The best performing detergent is used for solubilization and the proteins are purified via their
	rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate
	fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatograph. 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 C1 (PLXNC1)
Alternative Name:	PLXNC1 (PLXNC1 Products)
Background:	Receptor for SEMA7A, for smallpox semaphorin A39R, vaccinia virus semaphorin A39R and for
	herpesvirus Sema protein. Binding of semaphorins triggers cellular responses leading to the
	rearrangement of the cytoskeleton and to secretion of IL6 and IL8 (By similarity).
	{ECO:0000250, ECO:0000269 PubMed:20727575}.
Molecular Weight:	173.3 kDa Including tag.
UniProt:	O60486
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
Application Notes.	
Application notes.	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
Application notes.	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.

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Application Details	
	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
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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