antibodies

# Datasheet for ABIN3134670 PTPRN2 Protein (AA 28-1001) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	PTPRN2
Protein Characteristics:	AA 28-1001
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPRN2 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	RGRQLPGRLG CLFEDGLCGS LETCVNDGVF GRCQKVPVMD TYRYEVPPGA LLHLKVTLQK
	LSRTGFTWQD DYTQRVIAQE LANLPKAYLW HGEASGPARS LQQNADNEKW FSLEREVALA
	KTLRRYLPYL ELLSQTPTAN AHSRIDHETR PAKGEDSSPE NILTYVAHTS ALTYPPATRA
	KYPDNLLRPF SRLQPDELSP KVDGDIDKQK LIAALGAYTA QRLPGENDPE PRYLVHGSAR
	APRPFSATAL SQRWPPPPGD AKDSPSMDDD TLLQSLLKDL QQNSEVDRLG PLKEEKADSV
	AGAIQSDPAE GSQESHGRGA EGQPREQTDA PETMLQDHRL SEVDDPVYKE VNRLSFQLGD
	LLKDYGSPLL PEGPLLEKSS REEIKKSEQP EEVLSSEEET AGVEHVRSRT YSKDLFERKP
	NSEPQPRRLE DQFQNRAPEL WEDEESLKLA AQGPPSGGLQ LEVQPSEEQQ GYILTGNNPL
	SPEKGKQLMD QVAHILRVPS SFFADIKVLG PAVTFKVSAN IQNMTTADVI KAAADNKDQL
	EKATGLTILQ SGIRPKGKLK LLPHQEEQED STKFILLTFL SIACILGVLL ASSLAYCLRH
	NSHYKLKDKL SGLGADPSAD ATEAYQELCR QRMAIRPQDR SEGPHTSRIN SVSSQFSDGP
	MPSPSARSST SSWSEEPVQS NMDISTGHMI LAYMEDHLKN KNRLEKEWEA LCAYQAEPNS

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	SLVAQREENA PKNRSLAVLT YDHSRILLKS QNSHGSSDYI NASPIMDHDP RNPAYIATQG
	PLPATVADFW QMVWESGCAV IVMLTPLSEN GVRQCHHYWP DEGSNLYHVY EVNLVSEHIW
	CQDFLVRSFY LKNLQTNETR TVTQFHFLSW YDQGVPSSTR SLLDFRRKVN KCYRGRSCPI
	IVHCSDGAGR SGTYVLIDMV LNKMAKGAKE IDIAATLEHL RDQRPGMVQT KEQFEFALTA
	VAEEVNAILK ALPQ
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Ptprn2 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>
	• State-or-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:	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.

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#### Product Details

	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:	PTPRN2
Alternative Name:	Ptprn2 (PTPRN2 Products)
Background:	Plays a role in vesicle-mediated secretory processes (PubMed:21732083). Required for normal accumulation of secretory vesicles in hippocampus, pituitary and pancreatic islets. Required for the accumulation of normal levels of insulin-containing vesicles and preventing their degradation (PubMed:21732083). Plays a role in insulin secretion in response to glucose stimuli (PubMed:15220191, PubMed:21732083). Required for normal accumulation of the neurotransmitters norepinephrine, dopamine and serotonin in the brain. In females, but not in males, required for normal accumulation and secretion of pituitary hormones, such as luteinizing hormone (LH) and follicle-stimulating hormone (FSH) (PubMed:16269463). {ECO:0000269]PubMed:15220191, ECO:0000269]PubMed:16269463,
Molecular Weight:	ECO:0000269 PubMed:21732083}. 109.9 kDa Including tag.
UniProt:	P80560
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.

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### 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