

Datasheet for ABIN3131869

## Periaxin Protein (PRX) (AA 1-1391) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	Periaxin (PRX)
Protein Characteristics:	AA 1-1391
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Periaxin protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

#### Product Details

Sequence: MEARSRSAAE LRRALVEII VETEAQTGVS GFNVAGGGKE GIFVRELRED SPAAKSLSLQ  
 EGDQLLSARV FFENFKYEDA LRLQCAEPY KVSFCLKRTV PTGDALRPG TVSGYEMKGP  
 RAKVAKLNIQ SLAPVKKKKM VTGALGTPAD LAPVDVEFSF PKFSRLRRGL KAEAVKGPVP  
 AAPARRRLQL PRLRVREVAE EAQVARMAAA APPPRKAKAE AEAATGAGFT APQIELVGPR  
 LPSAEVGVVQ VSVPKGTPST EAASGFALHL PTLGLGAPAA PAVEPPATGI QVPQVELPTL  
 PSLPTLPTLP CLDTQEGAAV VKVPTLDVAA PSMGVDLALP GAEVEAQGEV PEVALKMPRL  
 SFPRFGIRGK EATEAKVVKG SPEAKAKGPR LRMPFGLSL LEPRPSGPEA VAESKLLPT  
 LKMPSFGIGV AGPEVKAPTG PEVKLPKVPE VKLPKVPEAA IPDVQLPEVQ LPKMSDMKLP  
 KIPEMVVPDV RLPEVQLPKV PEMKVPKEMKL PKWPEMAVPD VHLDPVQLPK VPENKLPKVP  
 EMAVPDVHLP DVQLPKVPEM KLPEMKLPKV PEMAVPDVRL PEVQLPKVSE VKLPKMPEMA  
 VPDVHLPQL LPKMSEVKLP KMPMAVPDV RLPEVQLPKV SEMKLPKMPE MTMPDIRLPE  
 VQLPKVPDIK LPEMKLPEIK LPKVPDPAVP DVPLPELQLP KVSDIRLPEM QVSQVPEVQL

PKMPEMKLSK VPEVQRKSAG AEQAKGTEFS FKLPKMTMPK LGKVGKPGEA SIEVPDKLMT  
LPCLQPEVGT EASHVGVPSL SLPSVELDLP GALGLEQVQV EAVPGKVEKP EGPRVAVGVG  
EVGFRVPSVE IVTPQLPTVE VEKEQLEMVE MKVKPSSKFS LPKFGLSGPK AVKGEVEGPG  
RATKLVSKF TISLPKARAG TEAEAKGAGE AGLLPALDLS IPQLSLDAQL PSGKVEVADS  
KPKSSRFALP KFGVKGRDSE ADVLVAGEAE LEGKGWGWDG KVKMPKLKMP SFGLSRGKEA  
ETQDGRVSPG EKLEAIAGQL KIPAVELVTP GAQETEKVTS GVKPSGLQVS TTGQVVAEQG  
ESVQRVSTLG ISLPQVELAS FGEAGPEIVA PSAEGTAGSR VQVPQVMLEL PGTQVAGGDL  
LVGEGIFKMP TVTVPQLELD VGLGHEAQAG EAAKSEGGIK LKLPTLTGTS RGEGVEPQGP  
EAQRTFHLSL PDVELTSPVS SHAEQVVEG DGDGGHKLKV RLPLFGLAKA KEGIEVGEKV  
KSPKLRPRV GFSQSESVSG EGSPSEEEEE EGSSEGASSR RGRVRVRLPR VGLASPSKVS  
KGQEGDATSK SPVGEKSPKF RFPVLSLSPK ARSGSRDREE GGFRVRLPSV GFSETAVPGS  
TRIEGTQAAA I

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Prx 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 receipt 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.

## Product Details

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Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	Periaxin (PRX)
Alternative Name:	Prx ( <a href="#">PRX Products</a> )
Background:	<p>Scaffolding protein that functions as part of a dystroglycan complex in Schwann cells, and as part of EZR and AHNAK-containing complexes in eye lens fiber cells (PubMed:11430802, PubMed:21745462, PubMed:22764250). Required for the maintenance of the peripheral myelin sheath that is essential for normal transmission of nerve impulses and normal perception of sensory stimuli (PubMed:10839370). Required for normal transport of MBP mRNA from the perinuclear to the paranodal regions (PubMed:15356632). Required for normal remyelination after nerve injury (PubMed:10839370). Required for normal elongation of Schwann cells and normal length of the internodes between the nodes of Ranvier. The demyelinated nodes of Ranvier permit saltatory transmission of nerve impulses, shorter internodes cause slower transmission of nerve impulses (PubMed:15356632, PubMed:23022068). Required for the formation of appositions between the abaxonal surface of the myelin sheath and the Schwann cell plasma membrane, the Schwann cell cytoplasm is restricted to regions between these appositions (PubMed:15356632, PubMed:23022068). Required for the formation of Cajal bands and of Schmidt-Lanterman incisures that correspond to short, cytoplasm-filled regions on myelinated nerves (PubMed:23022068, PubMed:22764250). Recruits DRP2 to the Schwann cell plasma membrane (PubMed:11430802, PubMed:23022068, PubMed:22764250). Required for normal protein composition of the eye lens fiber cell plasma membrane and normal eye lens fiber cell morphology (PubMed:21745462). {ECO:0000269 PubMed:10839370, ECO:0000269 PubMed:11430802, ECO:0000269 PubMed:15356632,</p>

## Target Details

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ECO:0000269|PubMed:22764250, ECO:0000269|PubMed:23022068}.

Molecular Weight: 148.6 kDa Including tag.

UniProt: [O55103](#)

## Application Details

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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 guarantee 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

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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)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process