Datasheet for ABIN7562482

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

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Overview

Quantity:	1 mg
Target:	Periaxin (PRX)
Protein Characteristics:	AA 1-1391
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Periaxin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Prx Protein expressed in mammalien cells.
Sequence:	MEARSRSAEE LRRAELVEII VETEAQTGVS GFNVAGGGKE GIFVRELRED SPAAKSLSLQ EGDQLLSARV FFENFKYEDA LRLLQCAEPY KVSFCLKRTV PTGDLALRPG TVSGYEMKGP RAKVAKLNIQ SLAPVKKKKM VTGALGTPAD LAPVDVEFSF PKFSRLRRGL KAEAVKGPVP AAPARRRLQL PRLRVREVAE EAQVARMAAA APPPRKAKAE AEAATGAGFT APQIELVGPR LPSAEVGVPQ VSVPKGTPST EAASGFALHL PTLGLGAPAA PAVEPPATGI QVPQVELPTL PSLPTLPTLP CLDTQEGAAV VKVPTLDVAA PSMGVDLALP GAEVEAQGEV PEVALKMPRL SFPRFGIRGK EATEAKVVKG SPEAKAKGPR LRMPTFGLSL LEPRPSGPEA VAESKLKLPT LKMPSFGIGV AGPEVKAPTG PEVKLPKVPE VKLPKVPEAA IPDVQLPEVQ LPKMSDMKLP KIPEMVVPDV RLPEVQLPKV PEMKVPEMKL PKWPEMAVPD VHLPDVQLPK VPEMKLPKVP EMAVPDVHLP DVQLPKVPEM KLPEMKLPKV PEMAVPDVRL PEVQLPKVSE VKLPKMPEMA VPDVHLPELQ LPKMSEVKLP KMPEMAVPDV RLPEVQLPKV SEMKLPKMPE MTMPDIRLPE

Product Details

	VQLPKVPDIK LPEMKLPEIK LPKVPDMAVP DVPLPELQLP KVSDIRLPEM QVSQVPEVQL PKMPEMKLSK VPEVQRKSAG AEQAKGTEFS FKLPKMTMPK LGKVGKPGEA SIEVPDKLMT LPCLQPEVGT EASHVGVPSL SLPSVELDLP GALGLEGQVQ EAVPGKVEKP EGPRVAVGVG EVGFRVPSVE IVTPQLPTVE VEKEQLEMVE MKVKPSSKFS LPKFGLSGPK AVKGEVEGPG RATKLKVSKF TISLPKARAG TEAEAKGAGE AGLLPALDLS IPQLSLDAQL PSGKVEVADS KPKSSRFALP KFGVKGRDSE ADVLVAGEAE LEGKGWGWDG KVKMPKLKMP SFGLSRGKEA ETQDGRVSPG EKLEAIAGQL KIPAVELVTP GAQETEKVTS GVKPSGLQVS TTGQVVAEGQ ESVQRVSTLG ISLPQVELAS FGEAGPEIVA PSAEGTAGSR VQVPQVMLEL PGTQVAGGDL LVGEGIFKMP TVTVPQLELD VGLGHEAQAG EAAKSEGGIK LKLPTLGTGS RGEGVEPQGP EAQRTFHLSL PDVELTSPVS SHAEYQVVEG DGDGGHKLKV RLPLFGLAKA KEGIEVGEKV KSPKLRLPRV GFSQSESVSG EGSPSPEEEE EGSGEGASSR RGRVRVRLPR VGLASPSKVS KGQEGDATSK SPVGEKSPKF RFPRVSLSPK ARSGSRDREE GGFRVRLPSV GFSETAVPGS TRIEGTQAAA I **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	Periaxin (PRX)

Target Details

Alternative Name:	Prx (PRX Products)
Background:	Periaxin,FUNCTION: 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, ECO:0000269|PubMed:22764250, ECO:0000269|PubMed:23022068}.
Molecular Weight:	147.7 kDa
UniProt:	O55103

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 guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Buffer:	The buffer composition 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:	12 months

