Datasheet for ABIN7554794

NPHP4 Protein (AA 1-1426) (His tag)

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Overview

Quantity:	1 mg
Target:	NPHP4
Protein Characteristics:	AA 1-1426
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPHP4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NPHP4 Protein expressed in mammalian cells.
Sequence:	MNDWHRIFTQ NVLVPPHPQR ARQPWKESTA FQCVLKWLDG PVIRQGVLEV LSEVECHLRV SFFDVTYRHF FGRTWKTTVK PTKRPPSRIV FNEPLYFHTS LNHPHIVAVV EVVAEGKKRD GSLQTLSCGF GILRIFSNQP DSPISASQDK RLRLYHGTPR ALLHPLLQDP AEQNRHMTLI ENCSLQYTLK PHPALEPAFH LLPENLLVSG LQQIPGLLPA HGESGDALRK PRLQKPITGH LDDLFFTLYP SLEKFEEELL ELHVQDHFQE GCGPLDGGAL EILERRLRVG VHNGLGFVQR PQVVVLVPEM DVALTRSASF SRKVVSSSKT SSGSQALVLR SRLRLPEMVG HPAFAVIFQL EYVFSSPAGV DGNAASVTSL SNLACMHMVR WAVWNPLLEA DSGRVTLPLQ GGIQPNPSHC LVYKVPSASM SSEEVKQVES GTLRFQFSLG SEEHLDAPTE PVSGPKVERR PSRKPPTSPS SPPAPVPRVL AAPQNSPVGP GLSISQLAAS PRSPTQHCLA RPTSQLPHGS QASPAQAQEF PLEAGISHLE ADLSQTSLVL ETSIAEQLQE LPFTPLHAPI VVGTQTRSSA GQPSRASMVL LQSSGFPEIL DANKQPAEAV SATEPVTFNP QKEESDCLQS NEMVLQFLAF SRVAQDCRGT SWPKTVYFTF QFYRFPPATT PRLQLVQLDE AGQPSSGALT HILVPVSRDG TFDAGSPGFQ

	LRYMVGPGFL KPGERRCFAR YLAVQTLQID VWDGDSLLLI GSAAVQMKHL LRQGRPAVQA SHELEVVATE YEQDNMVVSG DMLGFGRVKP IGVHSVVKGR LHLTLANVGH PCEQKVRGCS TLPPSRSRVI SNDGASRFSG GSLLTTGSSR RKHVVQAQKL ADVDSELAAM LLTHARQGKG PQDVSRESDA TRRRKLERMR SVRLQEAGGD LGRRGTSVLA QQSVRTQHLR DLQVIAAYRE RTKAESIASL LSLAITTEHT LHATLGVAEF FEFVLKNPHN TQHTVTVEID NPELSVIVDS QEWRDFKGAA GLHTPVEEDM FHLRGSLAPQ LYLRPHETAH VPFKFQSFSA GQLAMVQASP GLSNEKGMDA VSPWKSSAVP TKHAKVLFRA SGGKPIAVLC LTVELQPHVV DQVFRFYHPE LSFLKKAIRL PPWHTFPGAP VGMLGEDPPV HVRCSDPNVI CETQNVGPGE PRDIFLKVAS GPSPEIKDFF VIIYSDRWLA TPTQTWQVYL HSLQRVDVSC VAGQLTRLSL VLRGTQTVRK VRAFTSHPQE LKTDPKGVFV LPPRGVQDLH VGVRPLRAGS RFVHLNLVDV DCHQLVASWL VCLCCRQPLI SKAFEIMLAA GEGKGVNKRI TYTNPYPSRR TFHLHSDHPE LLRFREDSFQ VGGGETYTIG LQFAPSQRVG EEEILIYIND HEDKNEEAFC VKVIYQ **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NPHP4
Alternative Name:	NPHP4 (NPHP4 Products)
Background:	Nephrocystin-4 (Nephroretinin),FUNCTION: Involved in the organization of apical junctions, the function is proposed to implicate a NPHP1-4-8 module (PubMed:19755384, PubMed:21565611). Does not seem to be strictly required for ciliogenesis (PubMed:21565611). Required for building functional cilia. Involved in the organization of the subapical actin network in multiciliated epithelial cells. Seems to recruit INT to basal bodies of motile cilia which subsequently interacts with actin-modifying proteins such as DAAM1 (By similarity). In cooperation with INVS may down-regulate the canonical Wnt pathway and promote the Wnt-PCP pathway by regulating expression and subcellular location of disheveled proteins. Stabilizes protein levels of JADE1 and promotes its translocation to the nucleus leading to cooperative inhibition of canonical Wnt signaling (PubMed:21498478, PubMed:22654112). Acts as a negative regulator of the hippo pathway by association with LATS1 and modifying LATS1-dependent phosphorylation and localization of WWTR1/TAZ (PubMed:21555462). {ECO:0000250|UniProtKB:B0DOB4, ECO:0000250|UniProtKB:P59240, ECO:0000269|PubMed:21498478, ECO:0000269|PubMed:21555462, ECO:0000269|PubMed:21565611, ECO:0000269|PubMed:22654112, ECO:0000305|PubMed:19755384}.
Molecular Weight:	157.6 kDa
UniProt:	O75161

Application Details

Application Notes:	We expect the protein to work for functional studies. 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
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.

Handling

Expiry Date:	12 months