

Datasheet for ABIN7554793
NPHP1 Protein (AA 1-732) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	NPHP1
Protein Characteristics:	AA 1-732
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPHP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat NPHP1 Protein expressed in mammalien cells.
Sequence:	MLARRQRDPL QALRRRNQEL KQQVDSLLSE SQLKEALEPN KRQHLYQRCI QLKQAIDENK NALQKLSKAD ESAPVANYNQ RKEEEHTLLD KLTQQLQGLA VTISRENITE VGAPTEEEEE SESEDSGSG GEEEDAEEEE EEKEENESHK WSTGEEYIAV GDFTAQQVGD LTFKKGEILL VIEKKPDGWW IAKDAKGNEG LVPRTYLEPY SEEEEQESS EEGSEEDVEA VDETADGAEV KQRTDPHWSA VQKAISEAGI FCLVNHVSFC YLIVLMRNRM ETVEDTNGSE TGFRAWNVQS RGRIFLVSKP VLQINTVDVL TTMGAIPAGF RPSTLSQLE EGNQFRANYF LQPELMPSQL AFRDLMW DAT EGTIRSRPSR ISLILTLWSC KMIPLPGMSI QVLSRHVRLC LFDGNKVLNS IHTVRATWQP KKPKTWTFSP QVTRILPCLL DGDCFIRSNS ASPDLGILFE LGISYIRNST GERGELSCGW VFLKLF D ASG VPIPAKTYEL FLNGGTPYEK GIEVDPSISR RAHGSVFYQI MTMRRQPQLL VKLRSLNRRS RNVLSLLPET LIGNMCSIHL LIFYRQILGD VLLKDRMSLQ STDLISHPML ATFPMLLEQP DVMDALRSSW AGKESTLKRS EKRDKFLKS TFLLVYHDCV

Product Details

LPLLHSTRLP PFRWAEETE TARWKVITDF LKQNQENQGA LQALLSPDGV HEPFDLSEQT
YDFLGEMRKN AV **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 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, Western Blot

Grade:

custom-made

Target Details

Target:

NPHP1

Alternative Name:

NPHP1 ([NPHP1 Products](#))

Background:

Nephrocystin-1 (Juvenile nephronophthisis 1 protein),FUNCTION: Together with BCAR1 it may play a role in the control of epithelial cell polarity (By similarity). Involved in the organization of apical junctions in kidney cells together with NPHP4 and RPGRIP1L/NPHP8 (By similarity). Does not seem to be strictly required for ciliogenesis (By similarity). Seems to help to recruit PTK2B/PYK2 to cell matrix adhesions, thereby initiating phosphorylation of PTK2B/PYK2 and PTK2B/PYK2-dependent signaling (By similarity). May play a role in the regulation of intraflagellar transport (IFT) during cilia assembly. Required for normal retina development (By similarity). In connecting photoreceptor cilia influences the movement of some IFT proteins such as IFT88 and WDR19. Involved in spermatogenesis (By similarity).

Target Details

{ECO:0000250|UniProtKB:Q9QY53}.

Molecular Weight: 83.3 kDa

UniProt: [O15259](#)

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

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