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Datasheet for ABIN3134553

NPHP4 Protein (AA 1-1425) (His tag)

1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | NPHP4 |
| Protein Characteristics: | AA 1-1425 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This NPHP4 protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS) |

Product Details

Sequence: MGDWHRAFTQ NTLVPPHPQR ARQLGKESTA FQCILKWLDG PLIKQGILDM LSELECHLRV
 TLFDVTYKHF FGRTWKTTVK PTNQPSKQPP RITFNEPLYF HTTLSHPSIV AWVEVVTEGR
 KRDLGTLQLLS CGFGILRIFG NKPEPSTSA QDKRLRLYHG TPRALLHPLL QDPIEQNKFM
 RLMENCSLQY TLKPHPPLEP AFHLLPENLL VSGFQQIPGL LPPHGDTGDA LRKPRFQKPT
 TWHLDDLFFT LYPSLEKFEE ELVQLLISDR EGVGLLDSGT LEVLERRLHV CVHNGLGFVQ
 RPQVVVLVPE MDVALTRSAS FSRKISASSK NSSGNQALVL RSHLRLPEMV SHPAFAIVFQ
 LEYVFNPSPG ADGASSPTS ISSVACMHMV RWAVWNPDL VGPGKVTPLP QGGVQQNPSR
 CLVYKVPSAS MSSEEVKQVE SGTIQFQFSL SSDGPTEHAN GPRVGRSSR KMPASPSGTP
 APAARDLAAT QDSPVGPGLS LSQLTASPLS PALQSSSKPP LQPPDSSQSP EGPQLQAESV
 LESRVSHLEA DLSQPASLQG TPAVEHLQEL PFTPLHAPIV VGAQTRSSRS QLSRAAMVLL
 QSSGFPEILD ASQQPVEAVN PIDPVRFPNPQ KEESDCLRGN EIVLQFLAFS RAAQDCPGTP
 WPQTVYFTFQ FYRFPPEPPTP RLQLVKLDGT GKSGSGSLSH ILVPINKDGS FDAGSPGLQL

RYMVDPGFLK PGEQRWFAHY LAAQTLQVDV WDGDSLIIIG SAGVQMKHLL RQGRPAVQVS
HELEVATEY EQEMMAVSGD VAGFGSVKPI GVHTVVKGRL HLTLANVGHA CEPRARGSNL
LPPSRSRVIS NDGASFFSGG SLLIPGGPKR KRVVQAQRLA DVDSELAAML LTHTRAGQGP
QAAGQEADAV HKRKLERMRL VRLQEAGGDS DSRRISLLAQ HSVRAQHSRD LQVIDAYER
TKAESIAGVL SQAITTHHTL YATLGTAEFF EFALKNPHNT QHTVAIEIDS PELSILDSQ
EWRYFKEATG LHTPLEEDMF HLRGSLAPQL YLRPRETAHI PLKFQSF SVG PLAPTQAPAE
VITEKDAESG PLWKCSAMPT KHAKVLF RVE TGQLIAVLCL TVEPQPHVVD QVFRFYHPEL
TFLKKAIRLP PWHTLPGAPV GMPGEDPPVH VRCSDPNVIC EAQNVGPGEP RDVFLKVASG
PSPEIKDFV VIYADRWLAV PVQTWQVCLH SLQRVDVSCV AGQLTRLSLV LRGTQTVRKV
RAFTSHPQEL KTDPAQVFL PPHGVQDLHV GVRPRRAGSR FVHLNLVDID YHQLVASWL
CLSCRQPLIS KAFEITMAAG DEKGTNKRIT YTNPYPSRRT YRLHSDRPEL LRFKEDSFQV
AGGETYTIGL RFLPSGSAGQ EEILYINDH EDKNEETFV KVLVYQ

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

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Nphp4 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">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.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. |
| 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: | NPHP4 |
| Alternative Name: | Nphp4 (NPHP4 Products) |
| Background: | Involved in the organization of apical junctions in kidney cells, together with NPHP1 and RPGRIP1L/NPHP8. Does not seem to be strictly required for ciliogenesis. {ECO:0000269 PubMed:21565611}. |
| Molecular Weight: | 158.2 kDa Including tag. |
| UniProt: | P59240 |

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) |

Images



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