Datasheet for ABIN3135928

NPHP3 Protein (AA 2-1325) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	NPHP3
Protein Characteristics:	AA 2-1325
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPHP3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	GTASSLVSPT GGEVIEDTYG AGGGEACEIP VEVKPKARLL RSSFRRGAGA GPGSLPRAAG GGGLLGASFK STGSSVPELE YAAAEFERLK KEYEIFRVSK NQELLSMGRR EAKLDTENKR LRAELQALQK TYQKILREKE GALEAKYQAM ERAVTFEHDR DRVKRQFKIF RETKENEIQD LLRAKRELES KLQRLQAQGI QVFDPGESDS DDNCTDVTAA GTQCEYWASR ALGSEHSIGS MIQLPQPFRG PEFAHSSIDV EGPFANINRD DWDAAVAGLL QATPLFSHSL WSHPVRCYLI YTDETQPEME LFLKDHSPKL KRMCETMGYF FLAVYFPLDV ENQYLTVRKW EIEKSSLVIL FLHSTLPSFL LEDCEEAFLQ NPEGKPGLIY HRLEDGKVTC DSVQQFLDQV SNLGKTTKAK IIEHSGDPAE GVCKIYVGVE KIIKQDILGL ENTDVEEKDG GREDSTPEED DFGDVLWDIH DEQEQMEAFQ QTSSSAHELG FEKYYQRLDD LVVAPAPIPP LLVSGGPGSG KSLLLSKWIQ LQQKHFPNTL ILSHFVGRPM STSSESSLII KRLTLKLMQH FWAVSALTLD PAKLLEEFPH WLEKLSARHQ GSIIIIIDSI DQVQQVEKHM KWLIDPLPVN VRVIVSVNVE TCPTAWRLWP TLHLDPLSPK DAISIITAEC YSMDVRLSRE QEKMLEQHCR PATTRHALYV TLFSKMMACA

	GRGGNVAETL HQCLQCQDTV SLYKLVLHHV RESMPSDRDK EWMTQILCLI NVSHNGVSES ELMELYPEMS WLSLTSIVHS LHKMHLLTYS CGLLRFQHLQ AWETVRLQYL EDPALVSSYR EKLISYFASQ LSQDRVTWRS ADELPWLFQQ QGSKQKLHSC LLNLLVAQNL YKRGHFAELL SYWQFVGKDK GAMATEYFES LKQYENSEGE ENMLCLADLY ETLGRFLKDL GLLSQAVVPL QRSLEIRETA LDPDHPRVAQ SLHQLAGVYV QWKKFGDAEQ LYKQALEISE NAYGADHPHA ARELEALATL YHKQNKYEQA EHFRKKSVII RQQATRRKGS LYGFALLRRR ALQLEELTLG KDKPENARTL NELGVLYFLQ NNLETAEQFL KRSLEMRERV LGPDHPDCAQ SLNNLAALCN EKKQYEKAEE LYERALDIRR RALAPDHPSL AYTVKHLAIL YKKTGKVDKA VPLYELAVEI RQKSFGPKHP SVATALVNLA VLHSQMKKHS EALPLYERAL KIYEDSLGRM HPRVGETLKN LAVLSYEEGN FEKAAELYKR AMEIKEAETS LLGGKAPSRQ SSSGDTFLFK TTHSPNVFLP QGQS **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 Nphp3 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 receival 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.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

	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

Target:	NPHP3
Alternative Name:	Nphp3 (NPHP3 Products)
Background:	Required for normal ciliary development and function. Inhibits disheveled-1-induced canonical Wnt-signaling activity and may also play a role in the control of non-canonical Wnt signaling that regulates planar cell polarity. Probably acts as a molecular switch between different Wnt signaling pathways. Required for proper convergent extension cell movements. {ECO:0000269|PubMed:18371931}.
Molecular Weight:	151.1 kDa Including tag.
UniProt:	Q7TNH6
Pathways:	cAMP Metabolic Process

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 gurantee 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

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

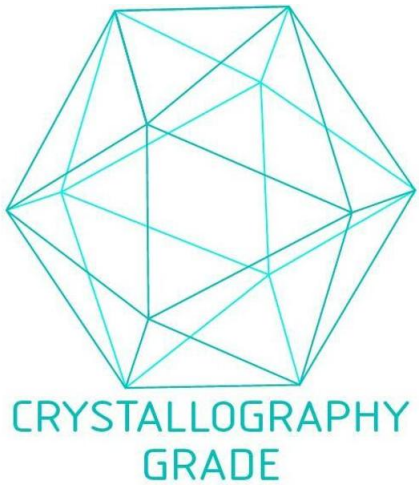

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process