

Datasheet for ABIN3136682

PKD1L1 Protein (AA 1-1524) (His tag)



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Overview

Quantity:	1 mg
Target:	PKD1L1
Protein Characteristics:	AA 1-1524
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PKD1L1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MDVDEDQHAV AVLHHKIQAN PELCVSDEQD SCPSDAPKGT ARDPESQKPS SPAPWDKNVL NTGSEERLSF INGEQAPPN WDEGTNSFSN PPPGISHTCN LSASWYHPES SSPLTQHPPR ATLVTQPENV EHFAICCFPE TDAQALPALG IRVHVASGTA LCLLLDFGDN CGAQMRCLTL AGATTVTGYH QYRKEGVYEL KAVVHDFHRA EELGPYYVDI SHGNVSVFMN SSSIHDSEAL SFADSLPQQR GTVVVHCFSS ISSYNVSFIS QTQVASGQAW CGVTVGYSKMV SVSVYTNNGTV FAANTNITFV AITEETIPLE FAWYFGENPP VMTTSRSIRR RLSVPQWYRV KVKATSRIGS VVSEPHLIRV QKRIMANRLV STASALVNAN VSFECRLNFG TDVAYLWNFG DDTIELGSSS SSHVYSREGE FTVEVLAFNN VSSTTLRKQL FIVREPCQPP PVKNMGPAKV QIWRSQLRL GVTFEAAILC NISQGLSYTW SFVSAEMTTV TLPTAVNTRR QTIMLPSTYL ECGNYTIAIK VQIKGSMVYS NYCVGVEVRA RAPVSVISEG THIFISTATS TFIILRGAQS YDPDNPGAAL RYHWTCTAAS SPRWPCFDNS TSYQVDTQAP AISFPAKWLS ECCDQFLVTL TVSSRGQNSS QALMFLSTRP DLAFRFVHIS WVNFRDISVN WNEEVSLRAV CEDCGDVPDL TYSWDLFLVN
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ATEKSAVEVP FCSTVGLLGA LALGTSLKSS KSDLPSNLRA PLTPHSPEPS PTPLGWTALS
NLGSISAEST AGGHHVPASG AVAGSGEPME EYSSLSSLAE EALMTNSSEG SWPSPSSSTD
FDDFEAYYSD IQEAVLSLGR QPGTSTNFQE AGPSLSAEES ASYGDNLLGP FLHTGRAKPT
LMIDWPKALV SQAAPHGYTT SGIMGPAVTI KPFSLSGKT YVLQASVASK HVLLGKAQLY
LTVNQAPQDM SCQVRPHHGM EAYTIFSVFC MSGKPDFHYE FRYRIGHTSS HTLYRGQDTQ
HYFLLPAGDS SDNYKVIVST EITDGHGSKV QPCTVAVTVL PRYHGNDCCD KELYNSTLES
LSTLRLAGSY METRNYITMI TGILSRLYVE SRNTSSCGQW SGIQDVLIS ACKVPYTDQE
GMMDSIHILR DLISFPNKLS LTSAMCIFKY TKMFLAQGGF SRRLVDDKKL RVEFVLLISG
VWEAAKEDAR DGDYLQEEGM KIISDMLLAC LSDEHQIHVS TGQMEFQTLT HRSPQSSIQN
LGFVQVHFPS DLASLHSTTQ EATQSSCYIS QLMFFMKSPY LGGQVPGQVG GVMIPRLYSC
ESRRPILRGQ LETPVTMEFG EEDYLHKRNP AMFVLLRDEV NVHRFTGLSE NSQESLQIHI
KFSKPVTRPF PIILLVRFSE KATPSDFLVK RYVFWDEQTV QMYVPAAPWK GANVGYSLL
DADYDRKPPN KYLAGAVNYT VHFQWICVF WDKTEWRSEG PYPQPGSSPE KVNCSYHHLA
PVSVLRRKLN ATLEVSSISE FQSH

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 Pkd111 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.

Product Details

	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:	<p>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</p> <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

Target:	PKD1L1
Alternative Name:	Pkd1l1 (PKD1L1 Products)
Background:	Component of a ciliary calcium channel that controls calcium concentration within primary cilia without affecting cytoplasmic calcium concentration. Forms a heterodimer with PKD2L1 in primary cilia and forms a calcium-permeant ciliary channel that regulates sonic hedgehog/SHH signaling and GLI2 transcription. Does not constitute the pore-forming subunit. Also involved in left/right axis specification downstream of nodal flow: forms a complex with PKD2 in cilia to facilitate flow detection in left/right patterning. {ECO:0000269 PubMed:21307093, ECO:0000269 PubMed:24336289}.
Molecular Weight:	169.3 kDa Including tag.
UniProt:	Q8R526

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.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the

Application Details

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)