Datasheet for ABIN7554970

PKD2L1 Protein (AA 1-805) (His tag)

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Overview

Quantity:	1 mg
Target:	PKD2L1
Protein Characteristics:	AA 1-805
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PKD2L1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PKD2L1 Protein expressed in mammalien cells.
Sequence:	MNAVGSPEGQ ELQKLGSGAW DNPAYSGPPS PHGTLRVCTI SSTGPLQPQP KKPEDEPQET AYRTQVSSCC LHICQGIRGL WGTTLTENTA ENRELYIKTT LRELLVYIVF LVDICLLTYG MTSSSAYYYT KVMSELFLHT PSDTGVSFQA ISSMADFWDF AQGPLLDSLY WTKWYNNQSL GHGSHSFIYY ENMLLGVPRL RQLKVRNDSC VVHEDFREDI LSCYDVYSPD KEEQLPFGPF NGTAWTYHSQ DELGGFSHWG RLTSYSGGGY YLDLPGSRQG SAEALRALQE GLWLDRGTRV VFIDFSVYNA NINLFCVLRL VVEFPATGGA IPSWQIRTVK LIRYVSNWDF FIVGCEVIFC VFIFYYVVEE ILELHIHRLR YLSSIWNILD LVVILLSIVA VGFHIFRTLE VNRLMGKLLQ QPNTYADFEF LAFWQTQYNN MNAVNLFFAW IKIFKYISFN KTMTQLSSTL ARCAKDILGF AVMFFIVFFA YAQLGYLLFG TQVENFSTFI KCIFTQFRII LGDFDYNAID NANRILGPAY FVTYVFFVFF VLLNMFLAII NDTYSEVKEE LAGQKDELQL SDLLKQGYNK TLLRLRLRKE RVSDVQKVLQ GGEQEIQFED FTNTLRELGH AEHEITELTA TFTKFDRDGN RILDEKEQEK MRQDLEEERV ALNTEIEKLG

Product Details

	RSIVSSPQGK SGPEAARAGG WVSGEEFYML TRRVLQLETV LEGVVSQIDA VGSKLKMLER KGWLAPSPGV KEQAIWKHPQ PAPAVTPDPW GVQGGQESEV PYKREEEALE ERRLSRGEIP TLQRS **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 mammalien 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:	PKD2L1
Alternative Name:	PKD2L1 (PKD2L1 Products)
Background:	Polycystin-2-like protein 1 (Polycystin-2L1) (Polycystic kidney disease 2-like 1 protein) (Polycystin-2 homolog) (Polycystin-L) (Polycystin-L1),FUNCTION: Pore-forming subunit of a heterotetrameric, non-selective cation channel that is permeable to Ca(2+) (PubMed:10517637, PubMed:11959145, PubMed:25820328, PubMed:27754867, PubMed:29425510, PubMed:23212381, PubMed:30004384). Pore-forming subunit of a calcium-permeant ion channel formed by PKD1L2 and PKD1L1 in primary cilia, where it controls cilium calcium concentration, but does not affect cytoplasmic calcium concentration (PubMed:24336289). The channel formed by PKD1L2 and PKD1L1 in primary cilia regulates sonic hedgehog/SHH

Target Details

	signaling and GLI2 transcription (PubMed:24336289). Pore-forming subunit of a channel formed by PKD1L2 and PKD1L3 that contributes to sour taste perception in gustatory cells (PubMed:19812697). The heteromeric channel formed by PKD1L2 and PKD1L3 is activated by low pH , but opens only when the extracellular pH rises again (PubMed:23212381). May play a role in the perception of carbonation taste (By similarity). May play a role in the sensory perception of water, via a mechanism that activates the channel in response to dilution of salivary bicarbonate and changes in salivary pH (By similarity). {ECO:0000250|UniProtKB:A2A259, ECO:0000269|PubMed:10517637, ECO:0000269|PubMed:11959145, ECO:0000269|PubMed:19812697, ECO:0000269|PubMed:23212381, ECO:0000269|PubMed:24336289, ECO:0000269|PubMed:25820328, ECO:0000269|PubMed:27754867, ECO:0000269|PubMed:29425510, ECO:0000269|PubMed:30004384}.
Molecular Weight:	92.0 kDa
UniProt:	Q9P0L9

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