PKD2L1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PKD2L1, Polyclonal Antibody
Full Product Name	PKD2L1 (N-Term) Rabbit pAb
Product Gene Name	anti-PKD2L1 antibody
Product Synonym Names	Polycystic kidney disease 2-like 1 protein; Polycystin-2 homolog; Polycystin-2L1; Polycystin-L; Polycystin-L1; PKD2L1; PKD2L; PKDL; TRPP3
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB35841
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	AF073481 mRNA
3D Structure	ModBase 3D Structure for Q9P0L9
Immunogen	This PKD2L1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 37-65 amino acids from the N-terminal region of human PKD2L1.
Cellular Localization	Cell Membrane, Cell Projection, Cilium, Endoplasmic Reticulum, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PKD2L1 antibody	Western Blot (WB)
Application Notes for anti-PKD2L1 antibody	WB: 1:1000
Related Product Information for anti-PKD2L1 antibody	MBS8552651 is an antibody targeting PKD2L1. Also known as PKD2L1 (N-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-PKD2L1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PKD2L1. It may not necessarily be applicable to this product.

NCBI GI #	359465612
NCBI GeneID	9033
NCBI Accession #	NP_001240766.1
UniProt Primary Accession #	Q9P0L9

UniProt Related Accession #	Q9P0L9
GenBank Nucleotide #	NP_001240766.1
NCBI Official Full Name	polycystic kidney disease 2-like 1 protein isoform 2
NCBI Official Synonym Full Names	polycystin 2 like 1, transient receptor potential cation channel
NCBI Official Symbol	PKD2L1
NCBI Official Synonym Symbols	PCL; PKDL; PKD2L; TRPP3
UniProt Protein Name	Polycystic kidney disease 2-like 1 protein
UniProt Synonym Protein Names	Polycystin-2 homolog; Polycystin-2L1; Polycystin-L; Polycystin-L1
Protein Family	Polycystic kidney disease 2-like 1 protein
UniProt Gene Name	PKD2L1
UniProt Synonym Gene Names	PKD2L; PKDL; TRPP3
NCBI Protein Information	polycystic kidney disease 2-like 1 protein
NCBI Summary for PKD2L1	This gene encodes a member of the polycystin protein family. The encoded protein contains multiple transmembrane domains, and cytoplasmic N- and C-termini. The protein may be an integral membrane protein involved in cell-cell/matrix interactions. This protein functions as a calcium-regulated nonselective cation channel. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
UniProt Comments for PKD2L1	PKD2L1: May function as a subunit of an ion channel and act as a transducer of calcium-mediated signaling. Belongs to the polycystin family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Channel, cation; Membrane protein, integral; Membrane protein, multi-pass; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 10q24.31 Cellular Component: cell surface; endoplasmic reticulum; integral component of membrane; intracellular membrane-bound organelle; membrane; plasma membrane; receptor complex Molecular Function: alpha-actinin binding; calcium activated cation channel activity; calcium channel activity; calcium ion binding; calcium-activated potassium channel activity; cation channel activity; cation transmembrane transporter activity; cytoskeletal protein binding; identical protein binding; muscle alpha-actinin binding; protein binding; sodium channel activity; sour taste receptor activity Biological Process: cation transport; detection of chemical stimulus involved in sensory perception of sour taste; detection of mechanical stimulus; sensory perception of sour taste; smoothened signaling pathway
Research Articles on PKD2L1	**1.** Charge-neutralizing mutations (K452Q, K455Q and K461Q) in transmembrane segment 4 reduced gating charges, positively shifted the Boltzmann-type activation curve [i.e., open probability (P open)-V curve] and altered the time-courses of activation/deactivation of PKD2L1, indicating that this region constitutes part of a voltage sensor.
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