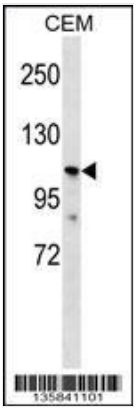
PKD2L1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PKD2L1, Polyclonal Antibody
Full Product Name	PKD2L1, NT (PKD2L1, PKD2L, PKDL, Polycystic kidney disease 2-like 1 protein, Polycystin-2 homolog, Polycystin-2L1, Polycystin-L, Polycystin-L1) (Biotin)
Product Gene Name	anti-PKD2L1 antibody
Product Synonym Names	PKD2L1; PKD2L; PKDL; Polycystic kidney disease 2-like 1 protein; Polycystin-2 homolog; Polycystin-2L1; Polycystin-L; Polycystin-L1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	88,472 Da
OMIM	AF073481 mRNA
3D Structure	ModBase 3D Structure for Q9P0L9
Immunogen	PKD2L1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-65 amino acids from the N-terminal region of human PKD2L1.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-PKD2L1 antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-PKD2L1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PKD2L1 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PKD2L1 antibody	PKD2L1 is 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. Alternative splice variants have been described but their full length sequences have not been determined.
Product References and Citations for anti-PKD2L1 antibody	Molland, K.L., et al. Biochem. J. 429(1):171-183(2010). Kawaguchi, H., et al. J. Biol. Chem. 285(23):17277-17281(2010). Li, Q., et al. J. Neurochem. 103(6):2391-2400(2007). Geng, L., et al. J. Cell. Sci. 119 (PT 7), 1383-1395 (2006): Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006).

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.
Searchable Terms for PKD2L1 purchase	MBS6334379 is an antibody targeting PKD2L1. Also known as PKD2L1, NT (PKD2L1, PKD2L, PKDL, Polycystic kidney disease 2-like 1 protein, Polycystin-2 homolog, Polycystin-2L1, Polycystin-L, Polycystin-L1) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PKD2L1 antibody
PKD2L1 Antibody (N-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the PKD2L1 antibody detected the PKD2L1 protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	33598944
NCBI GeneID	9033
NCBI Accession #	NP_057196.2
UniProt Primary Accession #	Q9P0L9
UniProt Secondary Accession #	O75972; Q5W039; Q9UP35; Q9UPA2
UniProt Related Accession #	Q9P0L9
GenBank Nucleotide #	NM_016112.2
NCBI Official Full Name	polycystic kidney disease 2-like 1 protein isoform 1
NCBI Official Synonym Full Names	polycystic kidney disease 2-like 1
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; polycystin-L; polycystin-L1; polycystin-2L1; polycystin-2 homolog; transient receptor potential cation channel, subfamily P, member 3

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.** Trimerization may be important for both homo- and possibly heteromeric assemblies of PKD2L1.
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