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PKD1L3 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54571

Specification

PKD1L3 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q7Z443
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**193 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human PKD1L3**
Epitope Specificity	**121-220/1732**
Isotype	**IgG**

Purity
affinity purified by Protein A

Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Membrane; Multi-pass membrane protein.**
SIMILARITY	**Belongs to the polycystin family. Contains 1 C-type lectin domain. Contains 1 GPS domain. Contains 1 PLAT domain.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
Polycystin-1L3 is a 1,732 amino acid multi-pass membrane protein that contains one PLAT domain, one GPS domain and one C-type lectin domain. Expressed at high levels in placenta and present at lower levels in lung and heart, Polycystin-1L3 is thought to function as an ion-channel regulator that may interact with Polycystin-L and play a role in heteromeric taste channels. The gene encoding Polycystin-1L3 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

PKD1L3 Polyclonal Antibody - Additional Information

Gene ID 342372

Other Names
Polycystic kidney disease protein 1-like 3, PC1-like 3 protein, Polycystin-1L3, PKD1L3

Target/Specificity
Highly expressed in placenta, weakly in heart and lung.

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

PKD1L3 Polyclonal Antibody - Protein Information

Name PKD1L3 (HGNC:21716)

Function
Pore-forming subunit of a heterotetrameric, non-selective cation channel that is permeable to Ca(2+) (PubMed:19464260, PubMed:23212381). Also shows permeability towards NA(1+), K(+) and Mg(2+) (PubMed:23212381). Heterotetrameric complex channel is activated by external low pH and Ca(2+), but opens only when the extracellular pH rises again and after the removal of acid stimulus (PubMed:19464260, PubMed:23212381). May act as a sour taste receptor in gustatory cells; however, its contribution to sour taste perception is unclear in vivo and may be indirect (PubMed:19812697).

Cellular Location
Cell membrane; Multi-pass membrane protein. Note=Interaction with PKD2L1 is required for localization to the cell membrane

Tissue Location
Highly expressed in placenta, weakly in heart and lung.

PKD1L3 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PKD1L3 Polyclonal Antibody - Images