

PKD1L3 Rabbit pAb

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Catalog # AP54571

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q7Z443
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	195894
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.
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.

Additional Information

Gene ID	342372
Other Names	Polycystin-1-like protein 3, Polycystin-1L3, PC1-like 3 protein, Polycystic kidney disease protein 1-like 3, PKD1L3 (HGNC:21716)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C 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 °C.

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.

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