

Polycystin-2

Catalog No: #AP79039



Package Size: #AP79039-1 50ug #AP79039-2 100ug #AP79039-3 1mg

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Description

Product Name	Polycystin-2
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Human
Immunogen Description	Recombinant protein
Other Names	TRPP2,Autosomal dominant polycystic kidney disease type II protein,Polycystic kidney disease 2 protein,Polycystin,R48321,Transient receptor potential cation channel subfamily P member 2
Accession No.	Q13563Gene name:PKD2
Uniprot	Q13563
GenID	5311;
Tag Info	His
Formulation	50mM NaH ₂ PO ₄ , 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Functions as a calcium permeable cation channel involved in fluid-flow mechanosensation by the primary cilium in renal epithelium. Together with TRPV4, forms mechano- and thermosensitive channels in cilium (PubMed:18695040). PKD1 and PKD2 may function through a common signaling pathway that is necessary for normal tubulogenesis. Acts as a regulator of cilium length, together with PKD1. The dynamic control of cilium length is essential in the regulation of mechanotransductive signaling. The cilium length response creates a negative feedback loop whereby fluid shear-mediated deflection of the primary cilium, which decreases intracellular cAMP, leads to cilium shortening and thus decreases flow-induced signaling. Also involved in left/right axis specification downstream of nodal flow: forms a complex with PKD1L1 in cilia to facilitate flow detection in left/right patterning.

References

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Note: This product is for in vitro research use only