Datasheet for ABIN7163832

anti-PKD1 antibody (AA 615-753)

2 Images

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Overview

Quantity:	100 µg
Target:	PKD1
Binding Specificity:	AA 615-753
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKD1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Polycystin-1 protein (615-753AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PKD1
Alternative Name:	PKD1 (PKD1 Products)
Background:	Background: Involved in renal tubulogenesis (PubMed:12482949). Involved in fluid-flow mechanosensation by the primary cilium in renal epithelium (By similarity). Acts as a regulator

Target Details

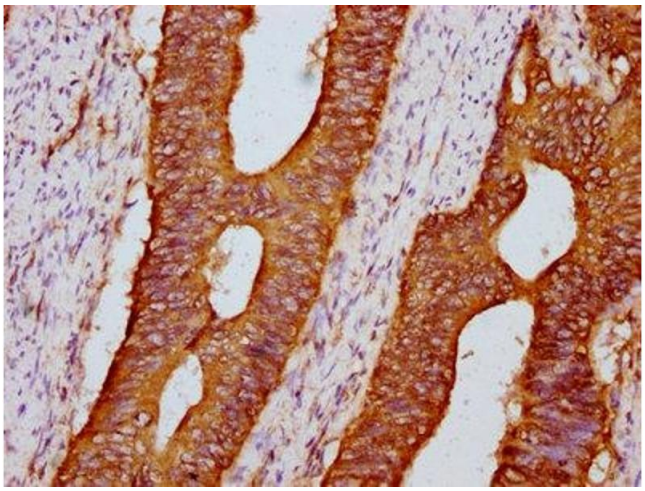
	of cilium length, together with PKD2 (By similarity). The dynamic control of cilium length is essential in the regulation of mechanotransductive signaling (By similarity). The cilium length response creates a negative feedback loop whereby fluid shear-mediated deflection of the primary cilium, which decreases intracellular cAMP, leads to cilium shortening and thus decreases flow-induced signaling (By similarity). May be an ion-channel regulator. Involved in adhesive protein-protein and protein-carbohydrate interactions. Aliases: Autosomal dominant polycystic kidney disease 1 protein antibody, Autosomal dominant polycystic kidney disease protein 1 antibody, nPKC-D1 antibody, nPKC-mu antibody, OTTHUMP00000208669 antibody, OTTHUMP00000208670 antibody, PBP antibody, Pc-1 antibody, PKD antibody, Pkd1 antibody, PKD1_HUMAN antibody, Polycystic Kidney Disease 1 antibody, polycystic kidney disease-associated protein antibody, Polycystin 1 Precursor antibody, Polycystin-1 antibody, Protein kinase C mu type antibody, Protein kinase D antibody, Serine/threonine-protein kinase D1 antibody, transient receptor potential cation channel, subfamily P, member 1 antibody, TRPP1 antibody
UniProt:	P98161
Pathways:	Myometrial Relaxation and Contraction, Maintenance of Protein Location

Application Details

Application Notes:	Recommended dilution: IHC:1:500-1:1000, IF:1:200-1:500,
Restrictions:	For Research Use only

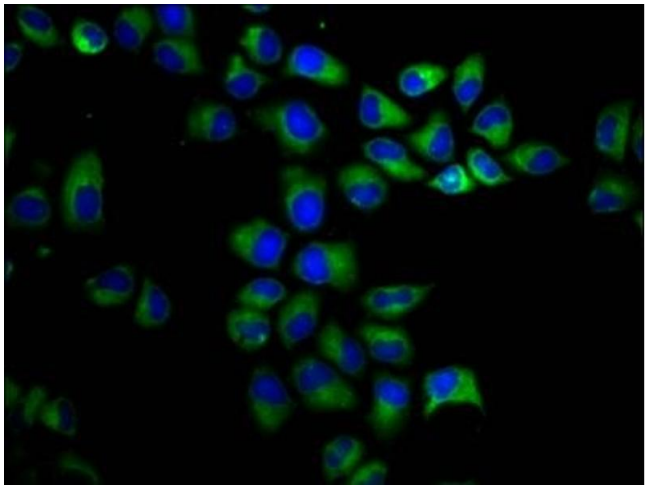
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. IHC image of ABIN7163832 diluted at 1:600 and staining in paraffin-embedded human colon cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence

Image 2. Immunofluorescence staining of Hela cells with ABIN7163832 at 1:200, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).