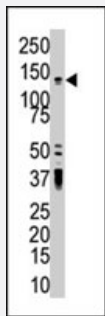


PKD2 polyclonal antibody

Catalog # PAB2306

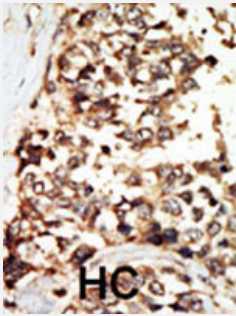
Size 400 uL

Applications



Western Blot (Cell lysate)

The PKD2 polyclonal antibody (Cat # PAB2306) is used in Western blot to detect PKD2 in HL-60 cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with the PKD2 polyclonal antibody (Cat # PAB2306), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PKD2.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human PKD2.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — PKD2

Entrez GeneID	5311
Protein Accession#	Q13563
Gene Name	PKD2
Gene Alias	APKD2, MGC138466, MGC138468, PC2, PKD4
Gene Description	polycystic kidney disease 2 (autosomal dominant)
Omim ID	173910
Gene Ontology	Hyperlink
Gene Summary	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. The encoded protein may function in renal tubular development, morphology, and function, and may modulate intracellular calcium homeostasis and other signal transduction pathways. This protein interacts with polycystin 1 to produce cation-permeable currents. Mutations in this gene have been associated with autosomal dominant polycystic kidney disease. [provided by RefSeq]

Publication Reference

- [Polycystin-1 regulates cell proliferation and migration through AKT/mTORC2 pathway in a human craniosynostosis cell model.](#)

Maria A Katsianou, Kostas A Papavassiliou, Antonios N Gargalionis, George Agrogiannis, Penelope Korkolopoulou, Dimitrios Panagopoulos, Marios S Themistocleous, Christina Piperi, Efthimia K Basdra, Athanasios G Papavassiliou.

Journal of Cellular and Molecular Medicine 2022 Apr; 26(8):2428.

Application: IHC-P, Human, Human osteoblasts, Human osteocytes

- [Polycystin-1 downregulation induces ERK-dependent mTOR pathway activation in a cellular model of psoriasis.](#)

Gargalionis AN, Malakou LS, Adamopoulos C, Piperi C, Theochari I, Nokhbehshaim M, Deschner J, Kokkalis G, Korkolopoulou P, Papadavid E, Papavassiliou AG, Basdra EK.

Biochimica et Biophysica Acta. Molecular Basis of Disease 2018 Aug; [Epub].

Application: IHC, Human, Normal, Psoriatic skin

- [Elevated expression of mechanosensory polycystins in human carotid atherosclerotic plaques: association with p53 activation and disease severity.](#)

Varela A, Piperi C, Sigala F, Agrogiannis G, Davos CH, Andri MA, Manopoulos C, Tsangaris S, Basdra EK, Papavassiliou AG. Scientific Reports 2015 Aug; 5:13461.

Application: IHC, WB, Human, Carotid plaques, HUVEC cells

- [Polycystin-1 and polycystin-2 are involved in the acquisition of aggressive phenotypes in colorectal cancer.](#)

Gargalionis AN, Korkolopoulou P, Farmaki E, Piperi C, Dalagiorgou G, Adamopoulos C, Levidou G, Saetta A, Fragkou P, Tsioli P, Kiaris H, Zizi-Serbetzoglou A, Karavokyros I, Papavassiliou KA, Tsavaris N, Patsouris E, Basdra EK, Papavassiliou AG.

International Journal of Cancer 2015 Apr; 136(7):1515.

Application: IHC-P, Human, Colorectal cancer

- [Polycystin channels and kidney disease.](#)

Stayner C, Zhou J.

Trends in Pharmacological Sciences 2001 Nov; 22(11):543.

Application: IF, WB-Tr, Human, Insect, Mouse, CHO cells, Human placenta syncytiotrophoblasts, Sf9 insect cells

- [In vivo interaction of the adapter protein CD2-associated protein with the type 2 polycystic kidney disease protein, polycystin-2.](#)

Lehtonen S, Ora A, Olkkonen VM, Geng L, Zerial M, Somlo S, Lehtonen E.

The Journal of Biological Chemistry 2000 Oct; 275(42):32888.

Application: IF, Mouse, M-1 cells

- [Mutations of PKD1 in ADPKD2 cysts suggest a pathogenic effect of trans-heterozygous mutations.](#)

Watnick T, He N, Wang K, Liang Y, Parfrey P, Hefferton D, St George-Hyslop P, Germino G, Pei Y.

Nature Genetics 2000 Jun; 25(2):143.

Disease

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