For Research Use Only

Polycystin 2 Polyclonal antibody

Catalog Number:19126-1-AP 4 Publications

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Basic Information

Catalog Number:
19126-1-AP

Size:
150ul , Concentration: 400 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_000297

GeneID (NCBI):
5311

Full Name:
polycystic kidney disease 2 (autosomal dominant)

Calculated MW:
110 kDa

Observed MW:
109 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:20-1:200

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat, Canine

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse kidney tissue, HEK-293 cells, human kidney tissue

IP : mouse testis tissue,

IHC : human kidney tissue,

Background Information

Polycystin 2 (PKD2), the product of the gene mutated in type 2 autosomal dominant polycystic kidney disease, belongs to the polycystin family. PKD2 is a ~110-kDa six-transmembrane channel protein with cytoplasmic N- and C-termini. This protein functions as a Ca2+-activated intracellular Ca2+ release channel in the endoplasmic reticulum. It is also present in the plasma membrane, where it functions as a nonselective cation channel. In addition, PKD2 expression has been documented in the primary cilium of kidney epithelial cells, where it is believed to have an essential role in mediating Ca2+ entry in response to flow rate changes, suggesting that it may be part of a mechanosensing machinery residing in the primary cilium. (PMID: 16135816; 10497221)

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaomei Liu	29130966	Cell Physiol Biochem	WB
Jian-Gang Ren	28552828	Hum Pathol	IHC
Xin Hou	34307458	Front Mol Biosci	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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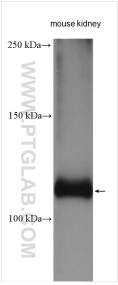
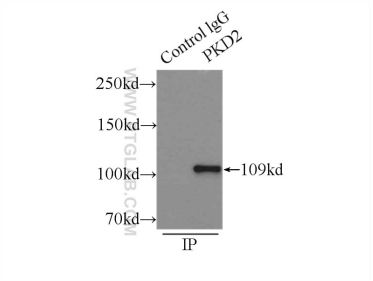
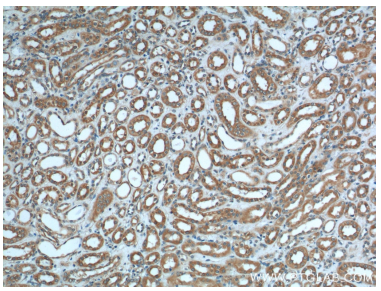
Selected Validation Data



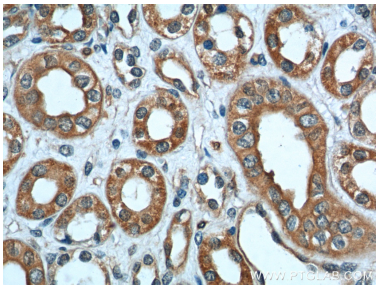
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 19126-1-AP (Polycystin 2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP Result of anti-Polycystin 2 (IP:19126-1-AP, 3ug; Detection:19126-1-AP 1:500) with mouse testis tissue lysate 8000ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 19126-1-AP (Polycystin 2 antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 19126-1-AP (Polycystin 2 antibody at dilution of 1:200 (under 40x lens).