

For Research Use Only

# Polycystin 2 Polyclonal antibody

Catalog Number: 19126-1-AP **4 Publications**



## Basic Information

### Catalog Number:

19126-1-AP

### Size:

500 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_000297

### GeneID (NCBI):

5311

### UNIPROT ID:

Q13563

### 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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

WB, IF, IHC

### 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 Ca<sup>2+</sup>-activated intracellular Ca<sup>2+</sup> 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 Ca<sup>2+</sup> 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

For technical support and original validation data for this product please contact:

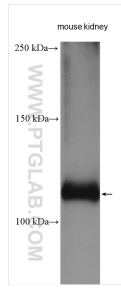
T: 4006900926

E: Proteintech-CN@ptglab.com

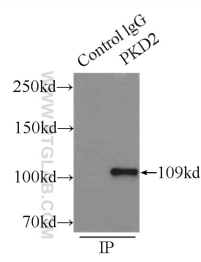
W: ptgcn.com

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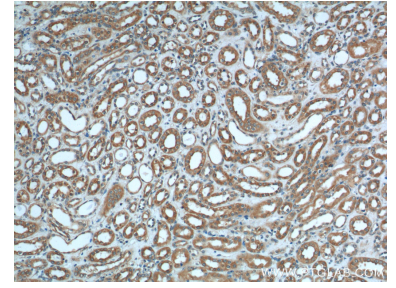
## Selected Validation Data



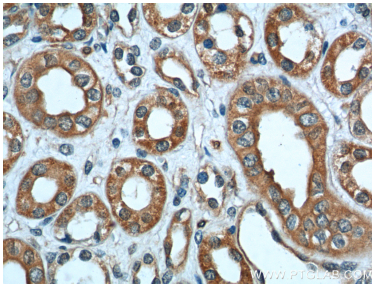
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 19126-1-AP (Polycystin 2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).