

## PKD2 (Phospho Ser812) Rabbit pAb

CatalogNo: YP1196 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA, IHC

#### MW

- 97kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000**

**IHC 1:50-300**

**ELISA 1:2000-20000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human PKD2 around the phosphorylation site of Ser812. AA range: 778-827

**Specificity** Phospho-PKD2 (S812) Polyclonal Antibody detects endogenous levels of PKD2S812. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): DDsEE

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## | Target Information

**Gene name** PKD2

**Protein Name** Polycystin-2

Organism	Gene ID	UniProt ID
Human	<a href="#">5311</a> ;	<a href="#">Q13563</a> ;
Mouse	<a href="#">18764</a> ;	<a href="#">O35245</a> ;

**Cellular Localization**

Cell projection , cilium membrane ; Multi-pass membrane protein . Endoplasmic reticulum membrane ; Multi-pass membrane protein . Cell membrane ; Multi-pass membrane protein . Basolateral cell membrane . Cytoplasmic vesicle membrane . Golgi apparatus . PKD2 localization to the plasma and ciliary membranes requires PKD1. PKD1:PKD2 interaction is required to reach the Golgi apparatus from endoplasmic reticulum and then traffic to the cilia (By similarity) . Retained in the endoplasmic reticulum by interaction with PACS1 and PACS2 (PubMed:15692563) . Detected on kidney tubule basolateral membranes and basal cytoplasmic vesicles (PubMed:10770959) . Cell surface and cilium localization requires GANAB (PubMed:27259053) . .

**Tissue specificity**

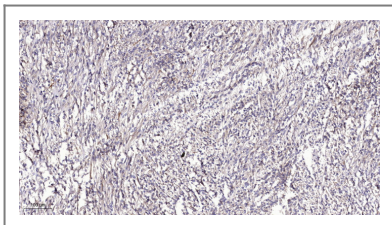
Detected in fetal and adult kidney (PubMed:10770959) . Detected at the thick ascending limb of the loop of Henle , at distal tubules , including the distal convoluted tubule and cortical collecting tubules , with weak staining of the collecting duct (PubMed:10770959) . Detected on placenta syncytiotrophoblasts (at protein level) (PubMed:26269590) . Strongly expressed in ovary , fetal and adult kidney , testis , and small intestine. Not detected in peripheral leukocytes.

**Function**

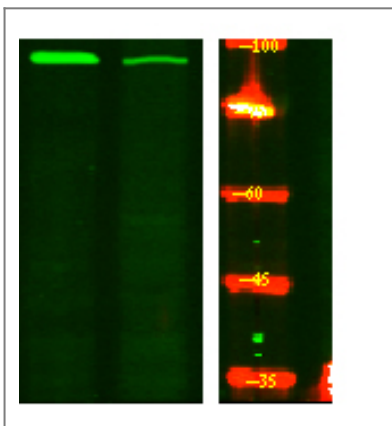
Disease:Defects in PKD2 are the cause of polycystic kidney disease autosomal dominant type 2 (ADPKD2) [MIM:173900]. ADPKD2 represents approximately 15% of the cases of ADPKD , a common genetic disease affecting about 1:400 to 1:1000 individuals. ADPKD is characterized by progressive formation and enlargement of cysts in both kidneys , typically leading to end-stage renal disease in adult life. Cysts also occurs in the liver and other organs. ADPKD2 is clinically milder than ADPKD1 but it has a deleterious impact on overall life expectancy. ,Domain:The C-terminal coiled-coil domain binds calcium and undergoes a calcium-induced conformation change. It is implicated in oligomerization and the interaction with PKD1. ,Function:Functions as a calcium permeable cation channel. PKD1 and PKD2 may function through a common signaling pathway that is necessary for normal tubulogenesis. ,online information:Polycystin 2 - Not a C-type lectin ,similarity:Belongs to the polycystin family. ,similarity:Contains 1 EF-hand domain. ,subunit:Forms homooligomers. Interacts with PKD1. PKD1 requires the presence of PKD2 for stable expression. Interacts with CD2AP. ,tissue specificity:Strongly expressed in ovary , fetal and adult kidney , testis , and small intestine. Not detected in peripheral leukocytes. ,

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## | Validation Data



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).



Western Blot analysis of HeLa treated or untreated by LPS lysis, using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

## Contact information

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