

For Research Use Only

PKD2 Recombinant monoclonal antibody

Catalog Number: 82524-2-RR



Basic Information

Catalog Number:

82524-2-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC112263

GeneID (NCBI):

5311

UNIPROT ID:

Q13563

Full Name:

polycystic kidney disease 2
(autosomal dominant)

Calculated MW:

968 aa, 110 kDa

Observed MW:

110 kDa

Purification Method:

Protein A purification

CloneNo.:

251151C3

Recommended Dilutions:

WB: 1:1000-1:4000

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human

Positive Controls:

WB : LNCaP cells, HeLa cells, HEK-293 cells, Caki-1 cells

IF/ICC : HEK-293 cells,

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)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

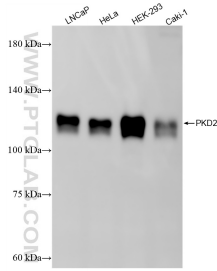
T: 4006900926

E: Proteintech-CN@ptglab.com

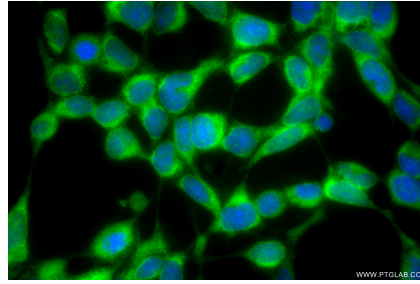
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82524-2-RR (PKD2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HEK-293 cells using PKD2 antibody (82524-2-RR, Clone: 251151C3) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).