

For Research Use Only

PKD2 Recombinant monoclonal antibody, PBS Only

Catalog Number: 82524-2-PBS



Basic Information

Catalog Number: 82524-2-PBS	GenBank Accession Number: BC112263	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5311	CloneNo.: 251151C3
Source: Rabbit	UNIPROT ID: Q13563	
Isotype: IgG	Full Name: polycystic kidney disease 2 (autosomal dominant)	
	Calculated MW: 968 aa, 110 kDa	
	Observed MW: 110 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human

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 -80°C.

Storage Buffer:
PBS only, pH7.3

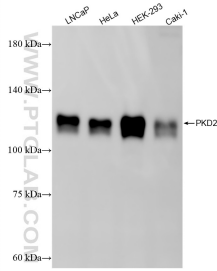
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

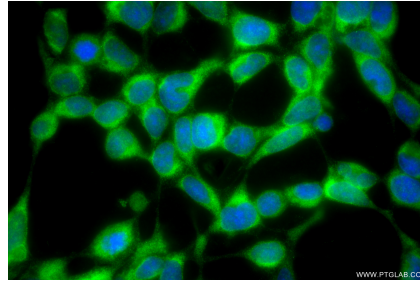
E: proteintech@ptglab.com
W: ptglab.com

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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. This data was developed using the same antibody clone with 82524-2-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82524-2-PBS in a different storage buffer formulation.