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Product datasheet for TA336647

PDZK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, Simple Western, WB
Recommended Dilution:	Immunohistochemistry: 1:400, Immunocytochemistry/ Immunofluorescence: 1:200, Western Blot: 1:1000, Immunohistochemistry-Paraffin: 1:400, Simple Western: 1:250
Reactivity:	Human, Mouse, Bovine (Does not react with: Rat)
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to the C-terminus of human PDZK1. [UniProt# Q13113]
Formulation:	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Whole antisera
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	57 kDa
Gene Name:	PDZ domain containing 1
Database Link:	NP_002605 Entrez Gene 59020 MouseEntrez Gene 65144 RatEntrez Gene 5174 Human Q5T2W1

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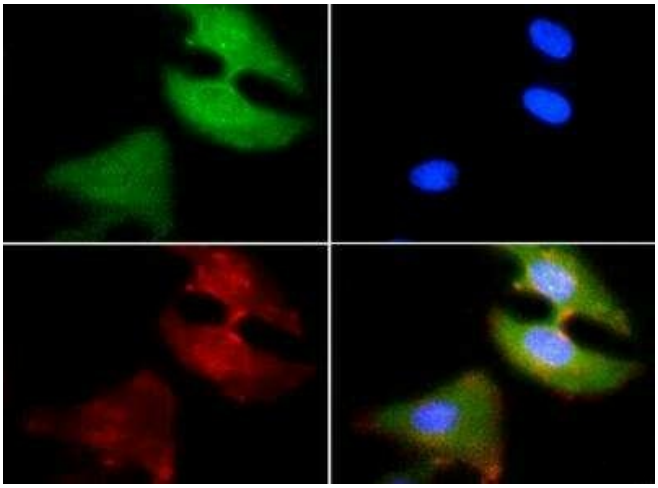
Background: Scaffold or adaptor proteins recruits and/or anchor their binding partners to specific subcellular locations, serving as a platform to regulate interactions between proteins involved in diverse signal transduction pathways, and PDZK1 (PDZ domain-containing protein 1) is a scaffold protein belonging to NHERFs family. PDZK1 expression is largely limited to epithelial cells and is mainly expressed in renal proximal epithelial cells, hepatocytes, and at a lower level in other epithelial as well as certain endothelial cells. PDZK1 has four PDZ domains which facilitates its interaction with its binding partners, including ion transporters (e.g. CFTR, OCTN1/OCTN2 etc) and several GPCRs (e.g. HTR2B, SSTR family members). Through its interaction with HDL and SR-BI, PDZK1 can play role in reverse cholesterol transport and for HDL-mediated vascular re-endothelialisation. When complex with SLC9A3R1, PDZK1 cluster proteins that are functionally dependent in a mutual fashion and modulate the trafficking as well as the activity of associated membrane proteins. PDZK1 plays a role in cellular mechanisms associated with multidrug resistance through its interaction with ABCC2 and PDZK1IP1. PDZK1 also implicates in connecting SCARB1 with cellular machineries for intracellular cholesterol transport and/or metabolism and regulation of proximal tubular Na+-dependent inorganic phosphate cotransport.

Synonyms: CAP70; CLAMP; NHERF-3; NHERF3; PDZD1

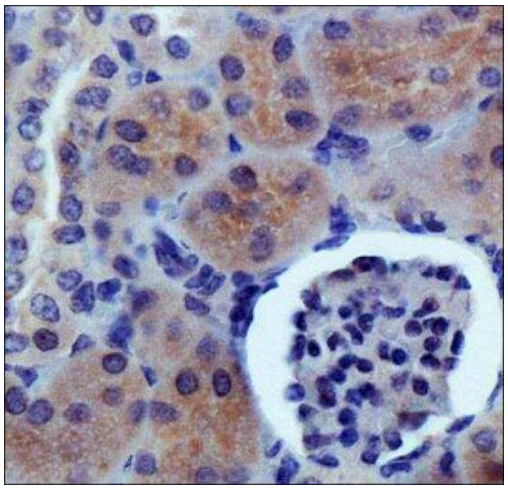
Note: This PDZK1 antibody is useful for Immunohistochemistry paraffin embedded sections, Immunocytochemistry/Immunofluorescence and Western blot. In Western blot a single band is observed at ~70 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

Product images:

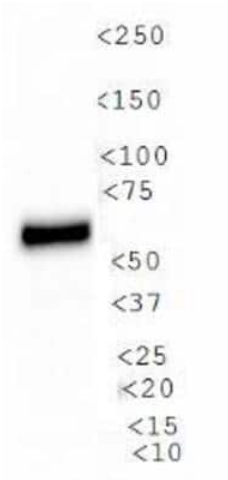


Immunocytochemistry/Immunofluorescence: PDZK1 Antibody TA336647 - PDZK1 antibody was tested in HeLa cells with FITC (green). Nuclei and alpha-tubulin were counterstained with Dapi (blue) and Dylight 550 (red).

Simple Western: PDZK1 Antibody TA336647 - Simple Western lane view shows a specific band for PDZK1 in 0.2 mg/ml of Human Liver lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. *Non-specific interaction with the 230 kDa standard may be seen with this antibody.



Immunohistochemistry: PDZK1 Antibody TA336647 - IHC analysis of PDZK1 in mouse kidney using DAB with hematoxylin counterstain.



Western Blot: PDZK1 Antibody TA336647 - WB analysis of PDZK1 in fetal human liver lysate.