



Rabbit Anti-PDZK1 antibody

SL9036R

Product Name:	PDZK1
Chinese Name:	PDZ结构域PDZK1蛋白抗体
Alias:	CAP70; CFTR associated protein of 70 kDa; CFTR associated protein, 70-KD; CFTR-associated protein of 70 kDa; CLAMP; D3Ert537e; Dietary Pi-regulated RNA-1; Diphor-1; mPDZK1; Na(+)/H(+) exchange regulatory cofactor NHE-RF3; Na(+)/H(+) exchanger regulatory factor 3; Na/Pi cotransporter C-terminal-associated protein 1; Na/Pi cotransporter C-terminal-associated protein; NaPi Cap1; NaPi-Cap1; NaPiCap1; NHERF 3; NHERF-3; NHERF3; NHRF3_HUMAN; OTTHUMP00000015572; PDZ domain containing 1; PDZ domain containing protein 1; PDZ domain-containing protein 1; PDZD1; PDZK1; Sodium hydrogen exchanger regulatory factor 3; Sodium-hydrogen exchanger regulatory factor 3; 1700023D20Rik; 2610507N21Rik; 4921513F16Rik; AI267131; AI314638; AL022680; C terminal linking and modulating protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	57kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PDZK1:1-100/519
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year

	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>A scaffold protein that connects plasma membrane proteins and regulatory components, regulating their surface expression in epithelial cells apical domains. May be involved in the coordination of a diverse range of regulatory processes for ion transport and second messenger cascades. In complex with SLC9A3R1, may cluster proteins that are functionally dependent in a mutual fashion and modulate the trafficking and the activity of the associated membrane proteins. May play a role in the cellular mechanisms associated with multidrug resistance through its interaction with ABCC2 and PDZK1IP1. May potentiate the CFTR chloride channel activity. May function to connect SCARB1 with the cellular machineries for intracellular cholesterol transport and/or metabolism. May be involved in the regulation of proximal tubular Na(+)-dependent inorganic phosphate cotransport therefore playing an important role in tubule function.</p> <p>Function: A scaffold protein that connects plasma membrane proteins and regulatory components, regulating their surface expression in epithelial cells apical domains. May be involved in the coordination of a diverse range of regulatory processes for ion transport and second messenger cascades. In complex with SLC9A3R1, may cluster proteins that are functionally dependent in a mutual fashion and modulate the trafficking and the activity of the associated membrane proteins. May play a role in the cellular mechanisms associated with multidrug resistance through its interaction with ABCC2 and PDZK1IP1. May potentiate the CFTR chloride channel activity. May function to connect SCARB1 with the cellular machineries for intracellular cholesterol transport and/or metabolism. May be involved in the regulation of proximal tubular Na(+)-dependent inorganic phosphate cotransport therefore playing an important role in tubule function (By similarity).</p> <p>Subunit: Interacts with PDZK1IP1 and ABCC2. Binds to the C-terminal region of SLC26A3. Interacts via its PDZ1 domain with the C-terminal domain of SCARB1. Forms a heterodimeric complex with SLC9A3R1. Interacts with AKAP2, BCR, CFTR, SLC22A12, SLC22A4, SLC22A5, SLC26A6, SLC9A3R2 and SLC17A1. Component of a complex, composed of PDZK1, SYNGAP1, KLHL17 and NMDA receptors. Interacts (via PDZ1 domain) directly with KLHL17; the interaction is important for integrity of actin cytoskeleton structures in neurons (By similarity).</p> <p>Subcellular Location: Cytoplasm. Membrane. Associated with peripheral membranes. Localizes to the apical compartment of proximal tubular cells and to sinusoidal liver membranes.</p> <p>Tissue Specificity: Expression is limited to epithelial cells. Expressed in the kidney (brush border of proximal tubule), pancreas, liver, and small intestine. Expressed at a lower level in the</p>

adrenal cortex, testis and stomach. Overexpressed in breast, renal and lung carcinomas.

Similarity:

Belongs to the NHER family.
Contains 4 PDZ (DHR) domains.

SWISS:

Q5T2W1

Gene ID:

5174

Database links:

[Entrez Gene: 5174](#) Human

[Entrez Gene: 59020](#) Mouse

[Entrez Gene: 65144](#) Rat

[Omim: 603831](#) Human

[SwissProt: Q5T2W1](#) Human

[SwissProt: Q9JIL4](#) Mouse

[SwissProt: Q865P3](#) Rabbit

[SwissProt: Q9JJ40](#) Rat

[Unigene: 444751](#) Human

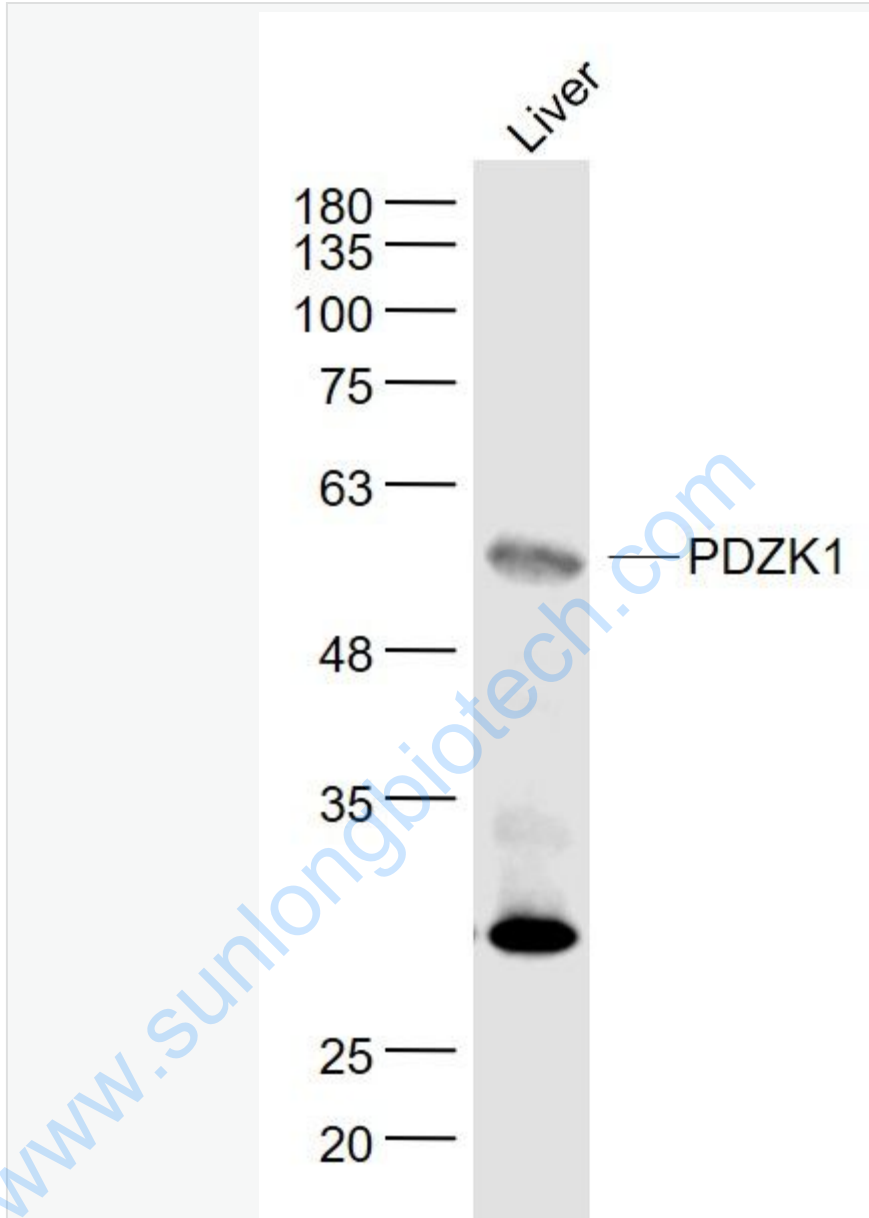
[Unigene: 482226](#) Mouse

[Unigene: 19842](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Liver (Mouse) Lysate at 40 ug

Primary: Anti- PDZK1 (SL9036R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 57 kD

	Observed band size: 57 kD
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