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Anti-PDZK1 Rabbit Monoclonal Antibody
Catalog # ABO15796

Specification

Anti-PDZK1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IP**
Primary Accession	Q5T2W1
Host	**Rabbit**
Isotype	**IgG**
Reactivity	**Human**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-PDZK1 Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human.

Anti-PDZK1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 5174

Other Names
Na(+)/H(+) exchange regulatory cofactor NHE-RF3, NHERF-3, CFTR-associated protein of 70 kDa, Na(+)/H(+) exchanger regulatory factor 3, Na/Pi cotransporter C-terminal-associated protein 1, NaPi-Cap1, PDZ domain-containing protein 1, Sodium-hydrogen exchanger regulatory factor 3, PDZK1, CAP70, NHERF3, PDZD1

Calculated MW
70 kDa KDa

Application Details
WB 1:500-1:2000
IP 1:50

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human PDZK1

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-PDZK1 Rabbit Monoclonal Antibody - Protein Information

Name PDZK1

Synonyms CAP70, NHERF3, PDZD1

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 NHERF1, 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. Required for normal cell-surface expression of SCARB1. Plays a role in maintaining normal plasma cholesterol levels via its effects on SCARB1. Plays a role in the normal localization and function of the chloride-anion exchanger SLC26A6 to the plasma membrane in the brush border of the proximal tubule of the kidney. May be involved in the regulation of proximal tubular Na(+)-dependent inorganic phosphate cotransport therefore playing an important role in tubule function (By similarity).

Cellular Location
Membrane {ECO:0000250|UniProtKB:Q9JJ40}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9JJ40}. Cell membrane {ECO:0000250|UniProtKB:Q9JIL4}. Note=Associated with peripheral membranes. Localizes to the apical compartment of proximal tubular cells and to sinusoidal liver membranes {ECO:0000250|UniProtKB:Q9JJ40}

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

Anti-PDZK1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PDZK1 Rabbit Monoclonal Antibody - Images

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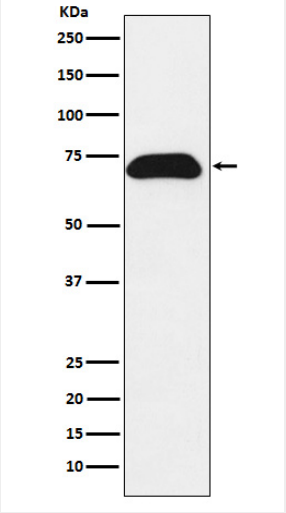

Western blot analysis of PDZK1 expression in T47-D cell lysate.