



## **PDZ Domain Containing 1 (CAP70, CLAMP, NHERF3, PDZD1, PDZK1)**

### **Catalog number**

P3129-80A

### **Supplier**

United States Biological

PDZK1 is a scaffold protein that connects plasma membrane proteins and regulatory components, regulating their surface expression in epithelial cells apical domains. It may be involved in the coordination of a diverse range of regulatory processes for ion transport and second messenger cascades. In complex with SLC9A3R1, it may cluster proteins that are functionally dependent in a mutual fashion and modulate the trafficking and the activity of the associated membrane proteins. It may also 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. PDZK1 functions to connect SCARB1 with the cellular machineries for intracellular cholesterol transport and/or metabolism and may be involved in the regulation of proximal tubular Na(+)-dependent inorganic phosphate cotransport therefore playing an important role in tubule function .

### **Cellular Localization**

Cytoplasmic and associated with peripheral membranes; localizes to the apical compartment of proximal tubular cells and to sinusoidal liver membranes.

### **Applications**

Suitable for use in Immunofluorescence and Western Blot. Other applications not tested.

### **Recommended Dilution**

Optimal dilutions to be determined by the researcher.

### **Storage and Stability**

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add sterile 40-50% glycerol, aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

### **Immunogen**

A synthetic peptide made to the C-terminus of human PDZK1. Homology: Homology is 100% to mouse and cow.

### **Formulation**

Antisera

### **Purity**

Whole antisera

### **Specificity**

This antibody is specific for PDZK1. Species Crossreactivity: Human and mouse. This antibody does



not react with rat protein. This antibody is likely to react with any species that has the C-terminal conserved residues DTEM.

**Product Type**

Pab

**Source**

human

**Isotype**

IgG

**Grade**

Serum

**Applications**

IF WB

**Crossreactivity**

Hu Mo

**Storage**

-20°C

**Reference**

Lan, D., et al. Fenofibrate induces a novel degradation pathway for scavenger receptor BI independent of PDZK1. JBC. 280 (24):23390 (2005)