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## **Human PDZK1 antibody**

Catalog Number: ATGA0243

## **PRODUCT INFORMATION**

## Catalog number

ATGA0243

#### Clone No.

AT1A2

## **Product type**

Monoclonal Antibody

#### UnitProt No.

Q5T2W1

#### **NCBI Accession No.**

NP 001188254

#### **Alternative Names**

Na(+)/H(+) exchange regulatory cofactor NHE-RF3, Na(+)/H(+) exchange regulatory cofactor NHE-RF3, CAP70, CLAMP, NHERF-3, NHERF3, PDZD1

## **PRODUCT SPECIFICATION**

### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### **Concentration**

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

## **Immunogen**

Recombinant human PDZK1 (1-519aa) purified from E. coli

## Isotype

IgG2b kappa

### **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB, ICC/IF, FACS

#### Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

### **Description**

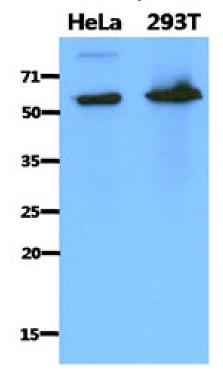
PDZK1 is PDZ domain-containing scaffolding protein with a 519 amino acid protein. PDZK1 mediates the localization of cell surface proteins and plays a critical role in cholesterol metabolism by regulating the HDL receptor, scavenger receptor class B type 1. This protein is expressed in the kidney, pancreas, liver, gastrointestinal tract, and adrenal cortex. In situ hybridization experiments showed that the expression of PDZK1 was limited to epithelial cells. In addition, PDZK1 was overexpressed in selected tumors of epithelial origin.

### **General References**

Kocher, O., et al. (1999) Lab Invest 64: 1733-1745. Kocher, O., et al. (2001) Mol Cell Biol 23: 1175-1180. Gisler, S.M., et al (2003) Kidney Int 64(5): 1733-45.

## **DATA**

## Western blot analysis (WB)



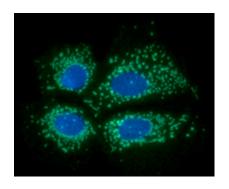
The cell lysates of HeLa (40ug) and 293T (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with antihuman PDZK1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



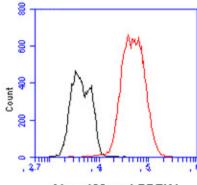
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ICC/IF analysis of PDKZ1 in Hep3B cells. The cell was stained with ATGA0243 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

## Flow cytometry (FACS)



Alexa488-anti-PDZK1

Flow cytometry analysis of PDZK1 in Hep3B cell line, staining at 2-5ug for  $1x10^6$ cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

