

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

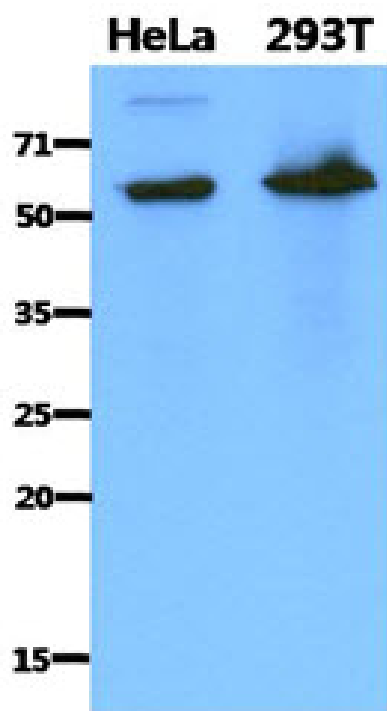
PDZK1 is PDZ domain-containing scaffolding protein with a 519 amino acid protein. PDZK1 mediates the localization of cell surface proteins and plays a critical role in cholesterol metabolism by regulating the HDL receptor, scavenger receptor class B type 1. This protein is expressed in the kidney, pancreas, 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)

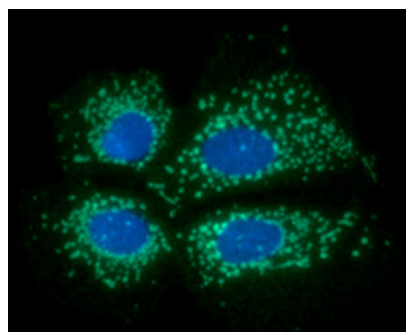


The cell lysates of HeLa (40ug) and 293T (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PDZK1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)

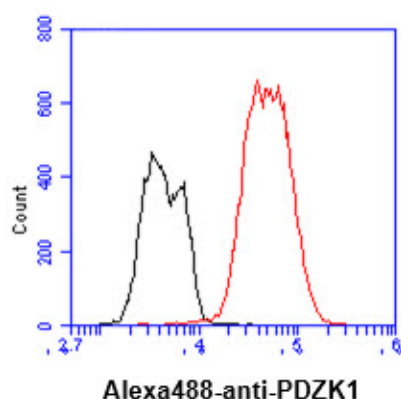
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ICC/IF analysis of PDZK1 in Hep3B cells. The cell was stained with ATGA0243 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of PDZK1 in Hep3B cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).