

Human RAB7A antibody

Catalog Number: ATGA0471

PRODUCT INFORMATION

Catalog number

ATGA0471

Clone No.

AT10E4

Product type

Monoclonal Antibody

UnitProt No.

P51149

NCBI Accession No.

NP_004628

Alternative Names

Ras-related protein Rab-7a, RAB7, RAB7A member RAS oncogene family, CMT2B, Charcot-Marie-Tooth neuropathy 2B

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 RAB7A (1-207aa) purified from E. coli

Isotype

IgG2a 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

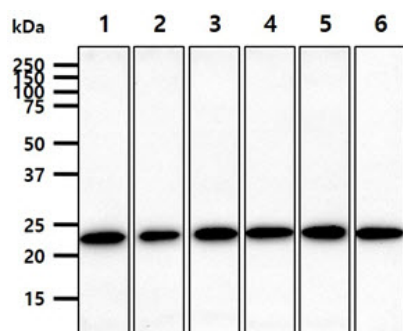
Ras-related protein Rab-7a, also known as RAB7A, is a member of the Ras superfamily of small Rab GTPases. RAB7A associates with the RIPL effector protein to control membrane trafficking from early to late endosome and to lysosomes. RAB7A has also been shown to regulate growth receptor endocytic trafficking, degradation, maturation of phagosome and autophagic vacuoles.

General References

Feng Y., et al. (1995) J Cell Biol. 131: 1435-52.
Barbero P., et al. (2002) J Cell Biol. 156: 511-8.

DATA

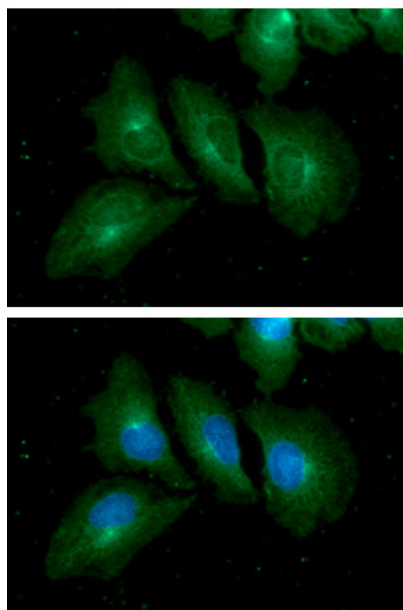
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human RAB7A antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate
Lane 2.: Jurkat cell lysate
Lane 3.: MCF7 cell lysate
Lane 4.: PC3 cell lysate
Lane 5.: 293T cell lysate
Lane 6.: SK-OV-3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

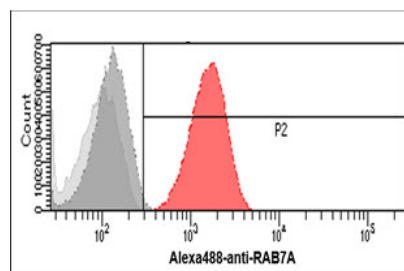


ICC/IF analysis of RAB7A in HeLa cells. The cell was stained with ATGA0471 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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Flow cytometry (FACS)



Flow cytometry analysis of RAB7A in HeLa cells. The cell was stained with ATGA0471 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).