Human ARF1 antibody

Catalog Number: ATGA0207

PRODUCT INFORMATION

Catalog number
ATGA0207

Clone No.
AT1B3

Product type
Monoclonal Antibody

UnitProt No.
P84077

NCBI Accession No.
NP_001649

Alternative Names
ADP-ribosylation factor 1, ADP ribosylation factor 1

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 ARF1 (1-181aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-G 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

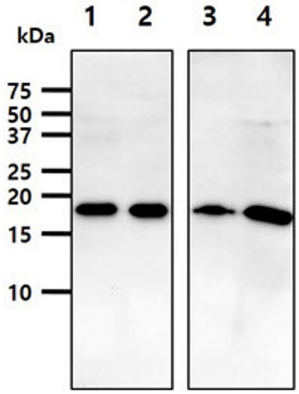
ADP-ribosylation factor 1 (ARF1) is a member of the human ARF gene family. The family member is essential and ubiquitous in eukaryotes, being involved in vesicular transport and functioning as an activator of phospholipase D and cholera toxin. The functions of ARF proteins in membrane traffic and organelle integrity are intimately tied to its reversible association with membranes and specific interactions with membrane phospholipids. ARF1 is various membrane trafficking events in the ER-Golgi system and in the maintenance of organelle structure. Inactive ARF1 (ARF1-GDP) localizes in the cytoplasm, while the active form (ARF1-GTP) localizes in the membrane.

General References

Amor, J. C. et al. (1994) Nature 372: 704-708.
Claude, A. et al. (1999) J. Cell Biol. 146: 71-84.
Derrien, V. et al. (2002) J. Cell Sci. 115: 2867-2879.

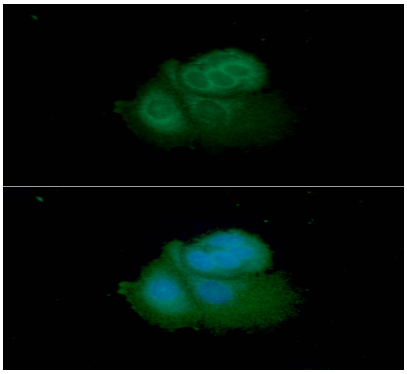
DATA

Western blot analysis (WB)



The cell lysates and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ARF1 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.: HepG2 cell lysate
Lane 3.: Brain tissue lysate
Lane 4.: MCF7 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of ARF1 in MCF7 cells. The cell was stained with ATGA0207 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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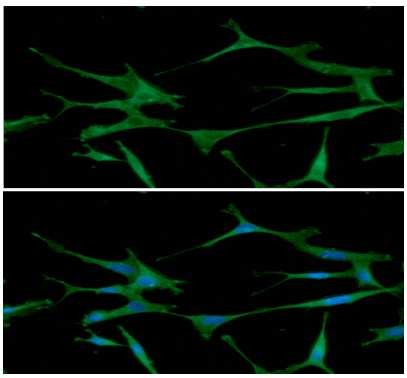
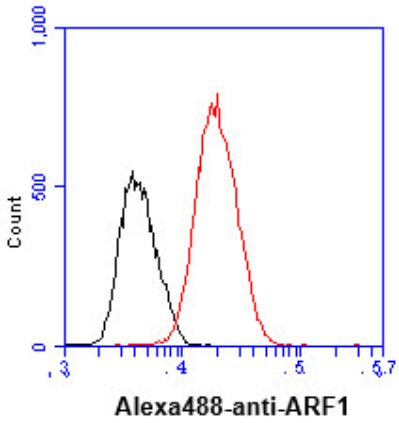


ICC/IF analysis of ARF1 in U87MG cells. The cell was stained with ATGA0207 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of ARF1 in MCF7 cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).