

Human alpha-Actinin 1/ACTN1 antibody

Catalog Number: ATGA0377

PRODUCT INFORMATION

Catalog number

ATGA0377

Clone No.

AT1D10

Product type

Monoclonal Antibody

UnitProt No.

P12814

NCBI Accession No.

NP_001123476

Alternative Names

Alpha-actinin-1 isoform a, Actinin alpha 1, Alpha-actinin cytoskeletal isoform, F-actin cross-linking protein, Non-muscle alpha-actinin-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 ACTN1 (1-249aa) 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 analysis and Flow cytometry 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

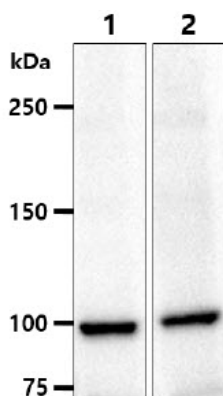
ACTN1 also known as Actinin, alpha 1. ACTN1 functions as an actin-binding-protein. ACTN1 determines the motility of keratinocytes by regulating the organization of the actin cytoskeleton, focal adhesion, and hemidesmosome proteins complexes, thereby modulating cell speed, lamellipodial dynamics, and directed migration.

General References

Hamill KJ., et al. (2014) Journal of Invest Dermatology. 135(4): 1043-1052.
Kunishima S., et al. (2013) Am J Hum Genet. 92(3): 431-438.

DATA

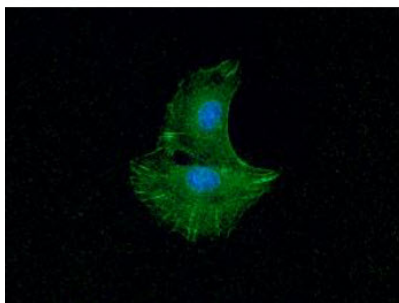
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACTN1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : PC-3 cell lysate
Lane 2. : A549 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of ACTN1 in Balb-3T3 cells. The cell was stained with ATGA0377 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of ACTN1 in HeLa cells. The cell was stained with ATGA0377 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)

