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# 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**

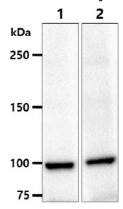
ACTN1 also known as Actinin, alpha 1. ACTN1 functions as an actin-binding-protein. ACTN1 determines the motility of keratinocytes by regulating the organization of the actin cytoskeleton, focal adhesion, and hemidesmosome proteins complexes, thereby modulating cell speed, lamellipodial dynamics, and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

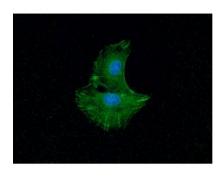
## Western blot analysis (WB)



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)



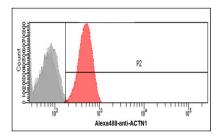
ICC/IF analysis of ACTN1 in Balb-3T3 cells. The cell was stained with ATGA0377 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

# 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  $1x1^6$ 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)

