

Mouse anti-Human ACTN1 Monoclonal Antibody | anti-ACTN1 antibody

ACTN1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48180	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

ACTN1; Monoclonal Antibody; ACTN1 antibody; Alpha-actinin-1 isoform a; anti-ACTN1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	AT1D10
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	914
Applicable Applications for anti-ACTN1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human ACTN1 (1-249aa) purified from E. coli
Clone Note	Anti-human ACTN1 mAb, clone AT1D10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACTN1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

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).



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-ACTN1 antibody	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.
Product Categories/Family for anti-ACTN1 antibody	Signal Transduction
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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194097350
NCBI GeneID	87
NCBI Accession #	NP_001123476
NCBI GenBank Nucleotide #	NM_001130004.1
UniProt Accession #	P12814; Q1HE25; Q9BTN1; B3V8S3; B4DHH3; B7TY16
Molecular Weight	107,141 Da
NCBI Official Full Name	alpha-actinin-1 isoform a
NCBI Official Synonym Full Names	actinin alpha 1
NCBI Official Symbol	ACTN1
NCBI Official Synonym Symbols	BDPLT15
NCBI Protein Information	alpha-actinin-1
UniProt Protein Name	Alpha-actinin-1
UniProt Gene Name	ACTN1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/actn1-antibody-clone-at1d10-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48180>