

anti-Human Alpha actin 1 Antibody | anti-ACTA1 antibody

Anti-Alpha actin 1 [3G8C7A6]

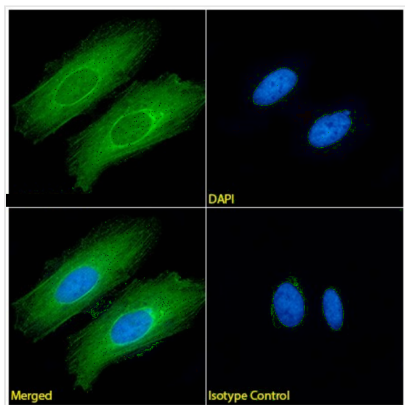
CATALOG # AAA72364	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

Alpha actin 1; Anti-Alpha actin 1 [3G8C7A6]; Actin; ACTA1; ACTA; Actin alpha skeletal muscle; Alpha-actin-1; Muscle specific actin; MSA; HHF35; CGMCNO.22312; anti-ACTA1 antibody

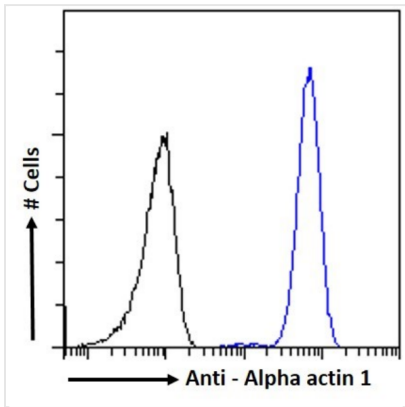
PRODUCT SPECIFICATIONS

Reactivity	Human
Isotype	Rabbit IgG kappa
Clone Number	3G8C7A6
Specificity	This antibody binds actin. Actin is a type of spherical multi-functional protein that forms a microfilament. Actin is widely existent in eukaryotic organisms, and there is a major component constituting the muscle segment and the cell skeleton in the cytoplasm and cellular nucleus of the intramuscular cell. Muscle specific actin (MSA) is a highly conserved, ubiquitous protein found in muscle and some non-muscle cells. In addition to participating in the normal morphology of maintaining cells, actin also participates in the formation, adhesion, migration, apoptosis, material transport, transmembrane information transfer, and receptor aggregation.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ACTA1 antibody	IHC (Immunohistochemistry), ELISA
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



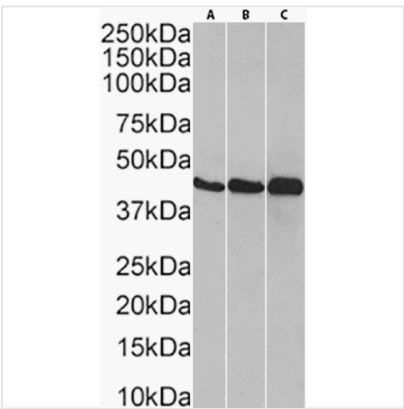
IF (Immunofluorescence)

Immunofluorescence staining of HeLa cells with anti-Alpha actin 1 antibody 3G8C7A6 . Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton, on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 3G8C7A6 (AAA72364) (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, AAA72364, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



FCM/FACS (Flow Cytometry)

Flow cytometry using anti-Alpha actin 1 antibody 3G8C7A6 . Paraformaldehyde fixed HeLa cells permeabilized with 0.5% Triton were stained with the anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 3G8C7A6 (AAA72364, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and the cells were analyzed using a FACSCanto flow-cytometer.



WB (Western Blot)

Western blot using anti-Alpha actin 1 antibody 3G8C7A6 . HEK293 (A) (1ug/ml), HeLa (B) (0.1ug/ml) cells lysate, and human skeletal muscle (C) (0.01ug/ml) tissue lysate (35ug protein in RIPA buffer) were resolved on an SDS-PAGE gel, and blots were probed with the chimeric rabbit version of 3G8C7A6 (AAA72364) at the mentioned respective concentrations before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and protein was detected by chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTA1 antibody	The original antibody was generated by immunizing BALB/c mice with a recombinant human actin protein. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format for improved compatibility with existing reagents assays and techniques.
Product Categories/Family for anti-ACTA1 antibody	microfilament; muscles; staining; IHC

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501881
NCBI GeneID	58
NCBI Accession #	NP_001091.1

NCBI GenBank Nucleotide #	NM_001100.3
UniProt Accession #	P68133 ; P02568 ; P99020 ; Q5T8M9
Molecular Weight	42,051 Da
NCBI Official Full Name	actin, alpha skeletal muscle
NCBI Official Synonym Full Names	actin, alpha 1, skeletal muscle
NCBI Official Symbol	ACTA1
NCBI Official Synonym Symbols	ACTA; ASMA; CFTD; MPFD; NEM1; NEM2; NEM3; CFTD1; CFTDM
NCBI Protein Information	actin, alpha skeletal muscle; nemaline myopathy type 3
UniProt Protein Name	Actin, alpha skeletal muscle
UniProt Gene Name	ACTA1
UniProt Synonym Gene Names	ACTA
UniProt Entry Name	ACTS_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/human-antibody/alpha-actin-1/72364>