

Rabbit anti-Human, Rat Actin-alpha/gamma Polyclonal Antibody | anti-ACTC1 antibody

Actin-alpha/gamma Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322473	Rabbit	Human, Rat	ELISA, Immunohistochemistry, Western Blot

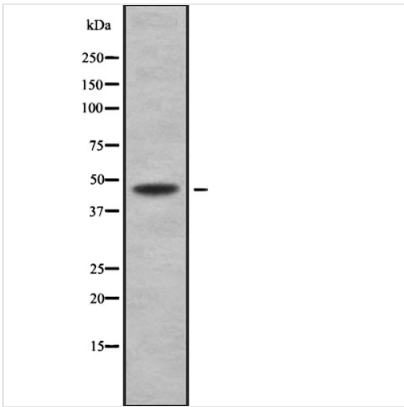
PRODUCT SYNONYMS

Actin-alpha/gamma; Polyclonal Antibody; Actin-alpha/gamma Antibody; ACTC; ACTC_HUMAN; ACTC1; Actin alpha cardiac muscle 1; Actin; alpha cardiac muscle 1; Alpha-cardiac actin; ASD5; CMD1R; CMH11; LVNC4; ACT; ACTB; ACTG; ACTG_HUMAN; actg1; cytoplasmic 2; gamma 1; gamma 1 propeptide; gamma; BRWS2; Cytoskeletal gamma actin; Deafness; autosomal dominant 20; autosomal dominant 26; DFNA20; DFNA26; epididymis luminal protein 176; Gamma-actin; HEL-176; N-terminally processed; ACTA3; ACTE; ACTG2; ACTH_HUMAN; Actin gamma 2 smooth muscle enteric; Actin gamma enteric smooth muscle; Actin like protein; ACTL3; ACTSG; Alpha actin 3; Alpha-actin-3; Gamma 2 actin; Gamma-2-actin; gamma-enteric smooth muscle; Smooth muscle gamma actin; Smooth muscle gamma-actin; a actin; ACTA; ACTA1; ACTA2; ACTS_HUMAN; ACTSA; Alpha 2 actin; alpha skeletal muscle; Alpha-actin-1; Cardiac muscle alpha actin 1; Skeletal muscle alpha actin 1; anti-ACTC1 antibody

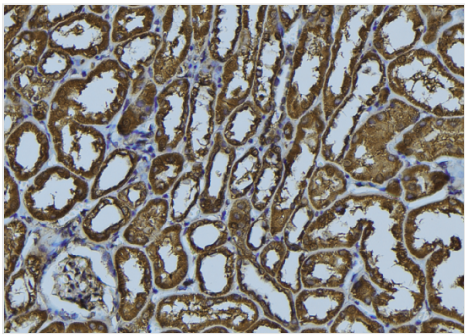
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Actin-alpha/gamma antibody detects endogenous levels of total Actin-alpha/gamma
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	377
Applicable Applications for anti-ACTC1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Actin-alpha/gamma
Subcellular Location	Cytoplasm > Cytoskeleton.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of Actin-alpha/gamma using HeLa whole cell lysates



IHC (Immunohistochemistry)
AAA322473 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTC1 antibody	Function: Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. Subunit Structure: Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others. Post-translational Modifications: Oxidation of Met-46 and Met-49 by MICALs (MICAL1, MICAL2 or MICAL3) to form methionine sulfoxide promotes actin filament depolymerization. MICAL1 and MICAL2 produce the (R)-S-oxide form. The (R)-S-oxide form is reverted by MSRB1 and MSRB2, which promotes actin repolymerization. Monomethylation at Lys-86 (K86me1) regulates actin-myosin interaction and actomyosin-dependent processes. Demethylation by ALKBH4 is required for maintaining actomyosin dynamics supporting normal cleavage furrow ingression during cytokinesis and cell migration. (Microbial infection) Monomeric actin is cross-linked by V.cholerae toxins RtxA and VgrG1 in case of infection: bacterial toxins mediate the cross-link between Lys-52 of one monomer and Glu-272 of another actin monomer, resulting in formation of highly toxic actin oligomers that cause cell rounding (PubMed:19015515). The toxin can be highly efficient at very low concentrations by acting on formin homology family proteins: toxic actin oligomers bind with high affinity to formins and adversely affect both nucleation and elongation abilities of formins, causing their potent inhibition in both profilin-dependent and independent manners (PubMed:26228148). Similarity: Belongs to the actin family.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885049
NCBI GeneID	70
NCBI Accession #	NP_005150.1
NCBI GenBank Nucleotide #	NM_005159.4
UniProt Accession #	P68032; P04270
Molecular Weight	Observed: 45 kDa Predicted: 43 kDa
NCBI Official Full Name	actin, alpha cardiac muscle 1
NCBI Official Synonym Full Names	actin, alpha, cardiac muscle 1
NCBI Official Symbol	ACTC1
NCBI Official Synonym Symbols	ACTC; ASD5; CMD1R; CMH11; LVNC4
NCBI Protein Information	actin, alpha cardiac muscle 1
UniProt Protein Name	Actin, alpha cardiac muscle 1

UniProt Gene Name	ACTC1
UniProt Synonym Gene Names	ACTC

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/polyclonal/actin-alpha-gamma-antibody-immunohistochemistry-western-blot-elisa/322473>