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Actin (ACTB/ACTC) Antibody (N-term)

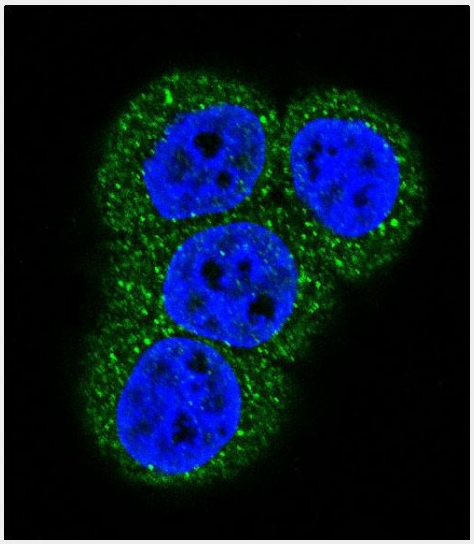
Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1491a

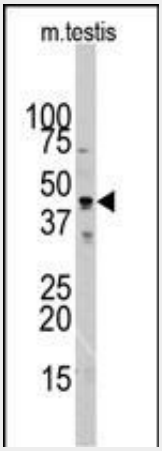
Specification

Actin (ACTB/ACTC) Antibody (N-term) - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	P68032
Other Accession	P60010, P68136, P68135, P68137, P68134, P68133, P68139, P68138, P63269, P63268, P63267, P63270, Q5E9B5, A2BDB0, P63259, P63260, P63261, Q5ZMQ2, P63258, P04751, P68035, P68033, P68034, Q3ZC07, O93400, P60711, P29751, Q6QAQ1, P60710, Q4R561, P60709, P48975
Reactivity	**Human, Mouse**
Predicted	**C.Elegans, Drosophila, Xenopus, Chicken, Bovine, Rabbit, Rat, Zebrafish, Hamster, Horse, Monkey, Pig, Sheep, Yeast**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Antigen Region	**38-67**



Confocal immunofluorescent analysis of Actin (ACTB/ACTC) Antibody (N-term)(Cat#AP1491a) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).



Western blot analysis of ACTB/ACTC Antibody (N-term) in mouse testis tissue lysates (35ug/lane). Target protein (arrow) was detected using the purified Pab.

Actin (ACTB/ACTC) Antibody (N-term) - Additional Information

Gene ID 70

Other Names
Actin, alpha cardiac muscle 1, Alpha-cardiac actin, ACTC1, ACTC

Target/Specificity
This Actin (ACTB/ACTC) antibody is

generated from rabbits immunized with a KLH conjugated synthetic peptide between 38-67 amino acids from the N-terminal region of human Actin (ACTB/ACTC).

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Actin (ACTB/ACTC) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Actin (ACTB/ACTC) Antibody (N-term) - Protein Information

Name ACTC1

Synonyms ACTC

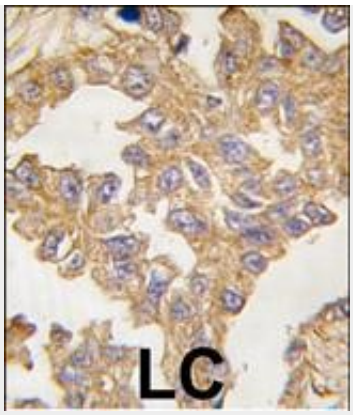
Function
Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

Cellular Location
Cytoplasm, cytoskeleton.

Actin (ACTB/ACTC) Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with ACTB/ACTC antibody (N-term) (Cat.#AP1491a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Actin (ACTB/ACTC) Antibody (N-term) - Background

Actins are highly conserved proteins that are involved in cell motility, structure, and integrity. ACTB/ACTC are nonmuscle cytoskeletal actins and major constituents of the contractile apparatus. Defects in ACTB are a cause of juvenile-onset dystonia. Defects in ACTC have been associated with idiopathic dilated cardiomyopathy (IDC) and familial hypertrophic cardiomyopathy (FHC).

Actin (ACTB/ACTC) Antibody (N-term) - References

Villebeck,L., Biochemistry 46 (44), 12639-12647 (2007) Avizienyte,E., Exp. Cell Res. 313 (15), 3175-3188 (2007) Bouldin,A.A., Muscle Nerve 35 (2), 254-258 (2007)

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Actin (ACTB/ACTC) Antibody (N-term) - Citations

- Transient Activation of Reprogramming Transcription Factors Using Protein Transduction Facilitates Conversion of Human Fibroblasts Toward Cardiomyocyte-Like Cells.
- Pituitary tumor transforming gene PTTG2 induces psoriasis by regulating vimentin and E-cadherin expression.
- Inherited human OX40 deficiency underlying classic Kaposi sarcoma of childhood.
- Synthesis and in vitro/in vivo anti-cancer evaluation of curcumin-loaded chitosan/poly(butyl cyanoacrylate) nanoparticles.