

**Actin (ACTB/ACTC) Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1491a**

**Specification**

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

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">P68032</a>
Other Accession	<a href="#">P60010</a> , <a href="#">P68136</a> , <a href="#">P68135</a> , <a href="#">P68137</a> , <a href="#">P68134</a> , <a href="#">P68133</a> , <a href="#">P68139</a> , <a href="#">P68138</a> , <a href="#">P63269</a> , <a href="#">P63268</a> , <a href="#">P63267</a> , <a href="#">P63270</a> , <a href="#">O5E9B5</a> , <a href="#">A2BDB0</a> , <a href="#">P63259</a> , <a href="#">P63260</a> , <a href="#">P63261</a> , <a href="#">O5ZMQ2</a> , <a href="#">P63258</a> , <a href="#">P04751</a> , <a href="#">P68035</a> , <a href="#">P68033</a> , <a href="#">P68034</a> , <a href="#">O3ZC07</a> , <a href="#">O93400</a> , <a href="#">P60711</a> , <a href="#">P29751</a> , <a href="#">O6QAO1</a> , <a href="#">P60710</a> , <a href="#">O4R561</a> , <a href="#">P60709</a> , <a href="#">P48975</a>
Reactivity Predicted	<b>Human, Mouse</b> <b>C.Elegans, Drosophila, Xenopus, Chicken,</b> <b>Bovine, Rabbit, Rat, Zebrafish, Hamster,</b> <b>Horse, Monkey, Pig, Sheep, Yeast</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>38-67</b>

**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**

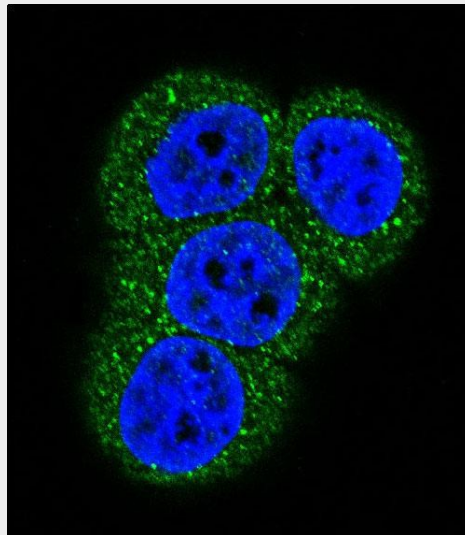
Cytoplasm, cytoskeleton.

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

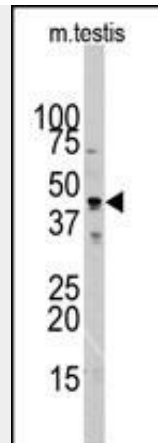
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

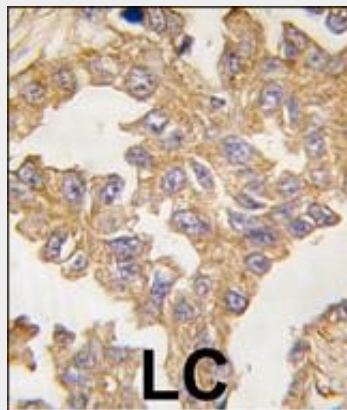
### Actin (ACTB/ACTC) Antibody (N-term) - Images



Confocal immunofluorescent analysis of Actin (ACTB/ACTC) Antibody (N-term)(Cat#AP1491a) with HeLa cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (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.



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)

### **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.](#)