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Actin (ACTB/ACTC) Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1491c

Specification

Actin (ACTB/ACTC) Antibody (Center) - Product Information

Application	**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**
Predicted	**C.Elegans, Drosophila, Xenopus, Chicken, Bovine, Mouse, Rabbit, Rat, Zebrafish, Hamster, Horse, Monkey, Pig, Sheep, Yeast**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**42019**
Antigen Region	**189-218**

Actin (ACTB/ACTC) Antibody (Center) - 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 189-218 amino acids from the Central region of human Actin (ACTB/ACTC).

Dilution
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

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

Actin (ACTB/ACTC) Antibody (Center) - 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.

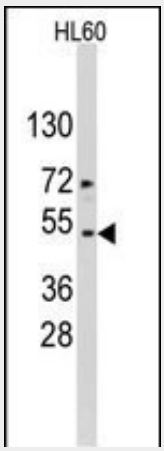
Cellular Location
Cytoplasm, cytoskeleton.

Actin (ACTB/ACTC) Antibody (Center) - Protocols

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

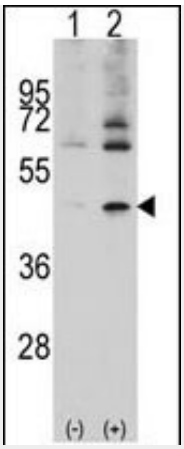
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Actin (ACTB/ACTC) Antibody (Center) - Images

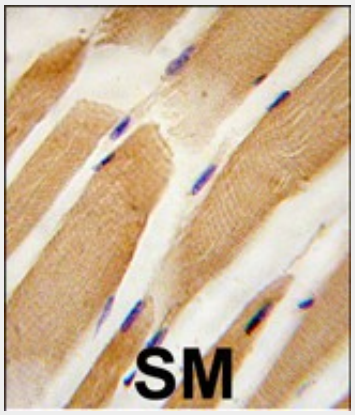


Western blot analysis of ACTB/ACTC Antibody (Center) in HL60 cell line lysates (35ug/lane). Target protein (arrow) was detected using the purified Pab.

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Western blot analysis of ACTB/ACTC (arrow) using rabbit polyclonal ACTB/ACTC Antibody (Center) (Cat.#AP1491a).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ACTB/ACTC gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with ACTB/ACTC antibody (Center), 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 (Center) - 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 (Center) - 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)