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Actin (ACTB/ACTC) Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1491c

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	Mouse, Rat, Rabbit, Zebrafish, Hamster, Monkey, Pig, Chicken, Bovine, Drosophila, C.Elegans, Xenopus, Yeast, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB13801
Calculated MW	42019
Antigen Region	189-218

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~~1:100~500 E~~Use at an assay dependent concentration.
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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

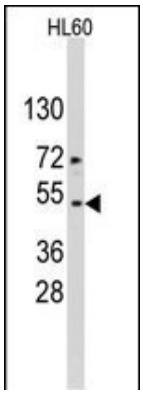
Background

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).

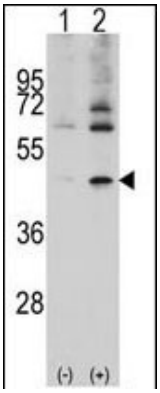
References

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)

Images

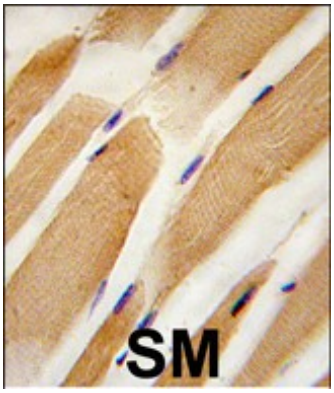


Western blot analysis of ACTB/ACTC Antibody (Center) in HL60 cell line lysates (35ug/lane). Target protein (arrow) was detected using the purified Pab.



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.



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