

# ACTA1/alpha-actin Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17487b

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">P68133</a>
<b>Other Accession</b>	<a href="#">P60010</a> , <a href="#">P68136</a> , <a href="#">P68135</a> , <a href="#">P68137</a> , <a href="#">P68134</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="#">Q5E9B5</a> , <a href="#">A2BDB0</a> , <a href="#">P63259</a> , <a href="#">P63260</a> , <a href="#">P63261</a> , <a href="#">Q5ZMQ2</a> , <a href="#">P63258</a> , <a href="#">P04751</a> , <a href="#">P68035</a> , <a href="#">P68033</a> , <a href="#">P68032</a> , <a href="#">P68034</a> , <a href="#">Q3ZC07</a> , <a href="#">Q93400</a> , <a href="#">P60711</a> , <a href="#">P29751</a> , <a href="#">Q6QAQ1</a> , <a href="#">P60710</a> , <a href="#">Q4R561</a> , <a href="#">P60709</a> , <a href="#">P48975</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Predicted</b>	Bovine, Chicken, Drosophila, C.Elegans, Hamster, Mouse, Pig, Monkey, Rat, Rabbit, Xenopus, Yeast, Zebrafish
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	42051
<b>Antigen Region</b>	189-217

## Additional Information

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<b>Gene ID</b>	58
<b>Other Names</b>	Actin, alpha skeletal muscle, Alpha-actin-1, ACTA1, ACTA
<b>Target/Specificity</b>	This ACTA1/Alpha-actin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 189-217 amino acids from the C-terminal region of human ACTA1/Alpha-actin.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	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.
<b>Precautions</b>	ACTA1/alpha-actin Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ACTA1
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**Synonyms**

ACTA

**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**

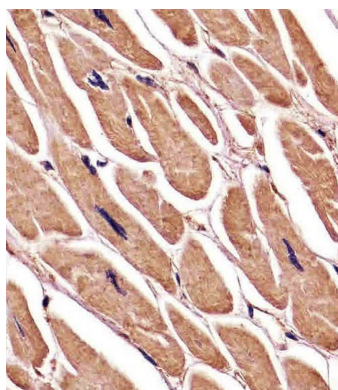
Cytoplasm, cytoskeleton.

**Background**

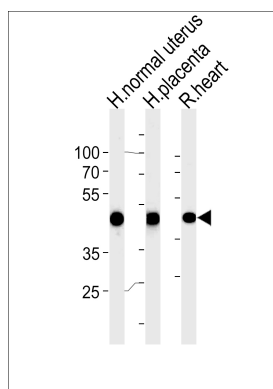
The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects.

**References**

Kim, E.Y., et al. Am. J. Physiol. Renal Physiol. 299 (3), F594-F604 (2010) : Haigh, S.E., et al. Neuromuscul. Disord. 20(6):363-374(2010) Yu, G., et al. J Clin Neurosci 17(6):766-769(2010) Yu, C.H., et al. PLoS ONE 5 (7), E11878 (2010) : Licastro, F., et al. Curr. Pharm. Des. 16(7):783-788(2010)

**Images**

AP17487b staining ACTA1/alpha-actin in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



ACTA1/α-actin Antibody (C-term) (Cat. #AP17487b) western blot analysis in human normal uterus and placenta, rat heart tissue lysates (35ug/lane). This demonstrates the ACTA1/α-actin antibody detected the ACTA1/α-actin protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.