

ACTA1/alpha-actin Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP17487b

Product Information

Application WB, IHC-P, E **Primary Accession** P68133

Other Accession P60010, P68136, P68135, P68137, P68134, P68139, P68138, P63269, P63268,

P63267, P63270, Q5E9B5, A2BDB0, P63259, P63260, P63261, Q5ZMQ2, P63258, P04751, P68035, P68033, P68032, P68034, Q3ZC07, O93400, P60711,

P29751, Q6QAQ1, P60710, Q4R561, P60709, P48975

Reactivity Human, Rat, Mouse

Predicted Bovine, Chicken, Drosophila, C.Elegans, Hamster, Mouse, Pig, Monkey, Rat,

Rabbit, Xenopus, Yeast, Zebrafish

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 42051
Antigen Region 189-217

Additional Information

Gene ID 58

Other Names Actin, alpha skeletal muscle, Alpha-actin-1, ACTA1, ACTA

Target/Specificity 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.

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 purified through a protein A column, followed by peptide

affinity purification.

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 ACTA1/alpha-actin Antibody (C-term) is for research use only and not for use

in diagnostic or therapeutic procedures.

Protein Information

Name ACTA1

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.

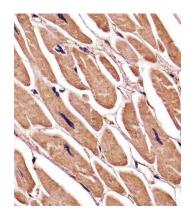
Background

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.

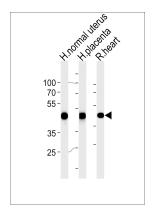
References

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'.