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ACTN3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12327c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q08043
Other Accession	NP_001095.1
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31768
Calculated MW	103241
Antigen Region	409-437

Additional Information

Gene ID	89
Other Names	Alpha-actinin-3, Alpha-actinin skeletal muscle isoform 3, F-actin cross-linking protein, ACTN3
Target/Specificity	This ACTN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 409-437 amino acids from the Central region of human ACTN3.
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	ACTN3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ACTN3
Function	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.

Tissue Location Expression restricted to fast (type 2) skeletal muscle fibers (at protein level).

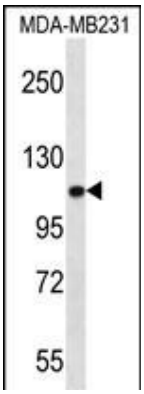
Background

Alpha-actinin is an actin-binding protein with multiple roles in different cell types. This gene expression is limited to skeletal muscle. It is localized to the Z-disc and analogous dense bodies, where it helps to anchor the myofibrillar actin filaments

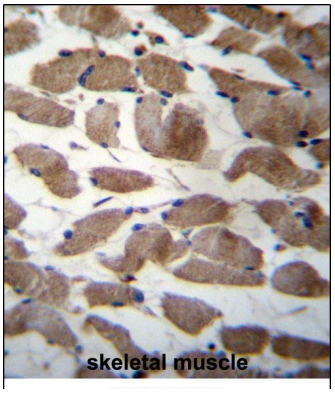
References

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Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Berman, Y., et al. Physiology (Bethesda) 25(4):250-259(2010)
Ruiz, J.R., et al. Scand J Med Sci Sports (2010) In press :
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Images



ACTN3 Antibody (Center) (Cat. #AP12327c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the ACTN3 antibody detected the ACTN3 protein (arrow).



ACTN3 Antibody (Center) (Cat. #AP12327c)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ACTN3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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