

# ACTN3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12327c

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q08043</a>
<b>Other Accession</b>	<a href="#">NP_001095.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB31768
<b>Calculated MW</b>	103241
<b>Antigen Region</b>	409-437

## Additional Information

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<b>Gene ID</b>	89
<b>Other Names</b>	Alpha-actinin-3, Alpha-actinin skeletal muscle isoform 3, F-actin cross-linking protein, ACTN3
<b>Target/Specificity</b>	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.
<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>	ACTN3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ACTN3
<b>Function</b>	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

Rodriguez-Romo, G., et al. Eur. J. Appl. Physiol. 110(6):1099-1106(2010)

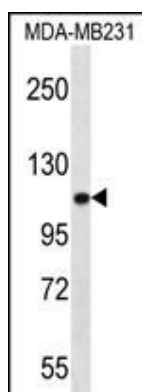
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)

Berman, Y., et al. Physiology (Bethesda) 25(4):250-259(2010)

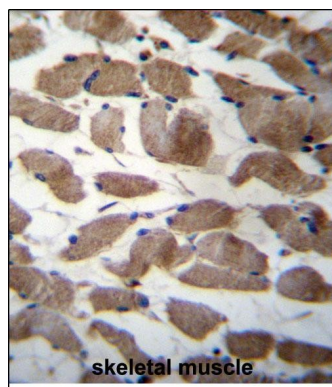
Ruiz, J.R., et al. Scand J Med Sci Sports (2010) In press :

Buxens, A., et al. Scand J Med Sci Sports (2010) In press :

## 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'.