

ACTN3 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12327c**Specification**

ACTN3 Antibody (Center) - Product Information

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

ACTN3 Antibody (Center) - 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~~1:10~50

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.

ACTN3 Antibody (Center) - 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

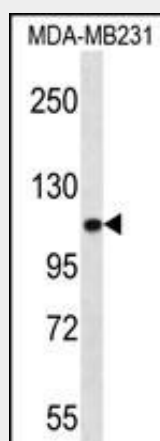
Expressed only in a subset of type 2 skeletal muscle fibers.

ACTN3 Antibody (Center) - Protocols

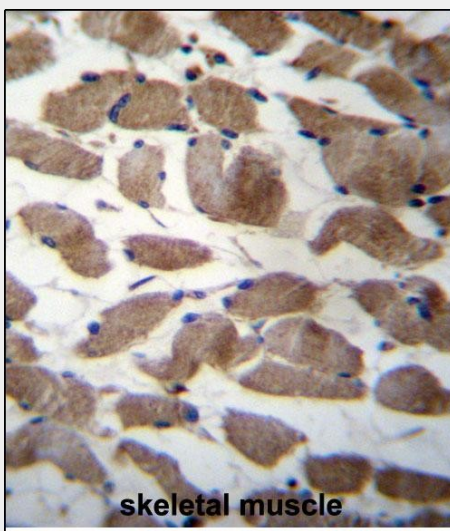
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ACTN3 Antibody (Center) - 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.

ACTN3 Antibody (Center) - 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

ACTN3 Antibody (Center) - 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 :