

Datasheet for ABIN5647038
anti-ACTN3 antibody (AA 574-617)

3 Images

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Overview

Quantity:	100 µg
Target:	ACTN3
Binding Specificity:	AA 574-617
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Amino acids 574-617 (EADRERGAIMGIGQGEIQKICQTYGLRPCSTNPYITLSPQDINTK from the human protein were used as the immunogen for the ACTN3 antibody.
Isotype:	IgG
Purification:	Antigen affinity purified

Target Details

Target:	ACTN3
Alternative Name:	ACTN3 (ACTN3 Products)
Background:	Alpha-actinin-3, also known as alpha-actinin skeletal muscle isoform 3 or F-actin cross-linking protein, is a protein that in humans is encoded by the ACTN3 gene. This gene encodes a member of the alpha-actin binding protein gene family. The encoded protein is primarily expressed in skeletal muscle and functions as a structural component of sarcomeric Z line.

Target Details

This protein is involved in crosslinking actin containing thin filaments. An allelic polymorphism in this gene results in both coding and non-coding variants, the reference genome represents the coding allele. The non-functional allele of this gene is associated with elite athlete status.

UniProt: [Q08043](#)

Pathways: [Cell-Cell Junction Organization](#)

Application Details

Application Notes: Western blot: 0.5-1 µg/mL, IHC (FFPE): 1-2 µg/mL

Restrictions: For Research Use only

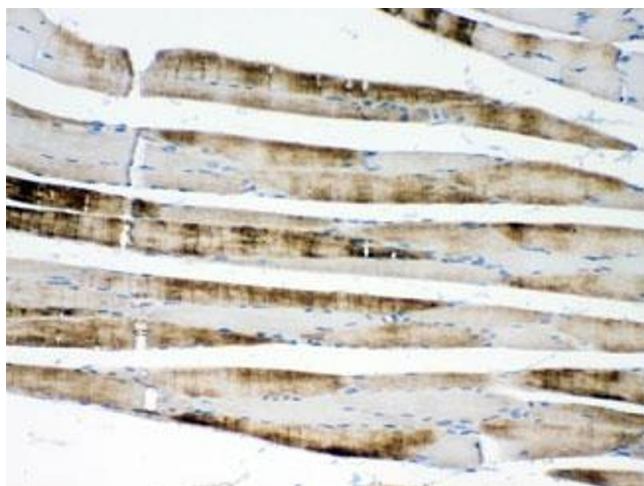
Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

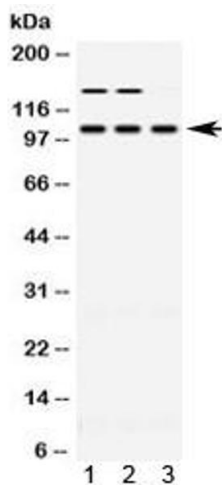
Storage Comment: After reconstitution, the ACTN3 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Images



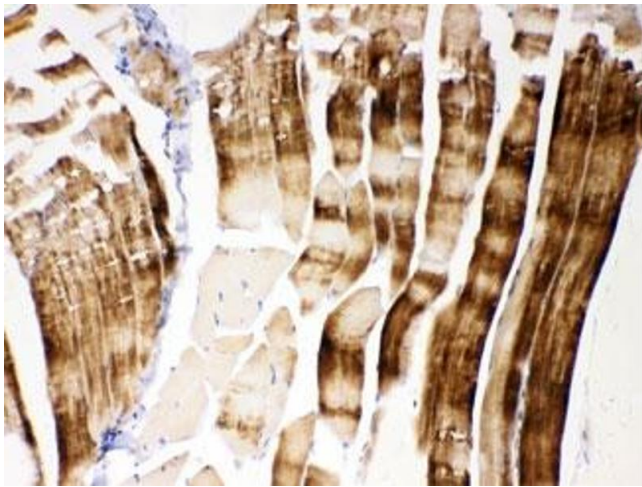
Immunohistochemistry

Image 1. IHC testing of FFPE rat skeletal muscle with ACTN3 antibody at 1ug/ml. HIER: steam sections in pH6 citrate buffer for 20 min.



Western Blotting

Image 2. Western blot testing of 1) rat skeletal muscle, 2) mouse skeletal muscle and 3) human HT080 lysate with ACTN3 antibody at 0.5ug/ml. Predicted molecular weight ~103 kDa.



Immunohistochemistry

Image 3. IHC testing of FFPE mouse skeletal muscle with ACTN3 antibody at 1ug/ml. HIER: steam sections in pH6 citrate buffer for 20 min.