

Anti-ACTN3 Picoband Antibody
Catalog # ABO11644**Specification**

Anti-ACTN3 Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	Q08043
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Alpha-actinin-3(ACTN3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ACTN3 Picoband Antibody - Additional Information

Gene ID 89

Other Names

Alpha-actinin-3, Alpha-actinin skeletal muscle isoform 3, F-actin cross-linking protein, ACTN3

Calculated MW

103241 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Tissue Specificity

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

Protein Name

Alpha-actinin-3

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human ACTN3 (574-617aa EADRERGAIMGIEIQKICQTYGLRPCSTNPYITLSPQDINT K), different from the related mouse sequence by five amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-ACTN3 Picoband Antibody - 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.

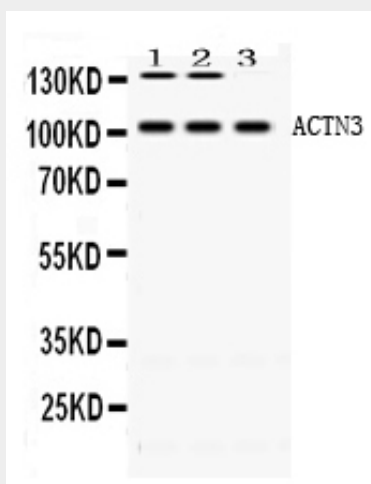
Tissue Location

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

Anti-ACTN3 Picoband Antibody - Protocols

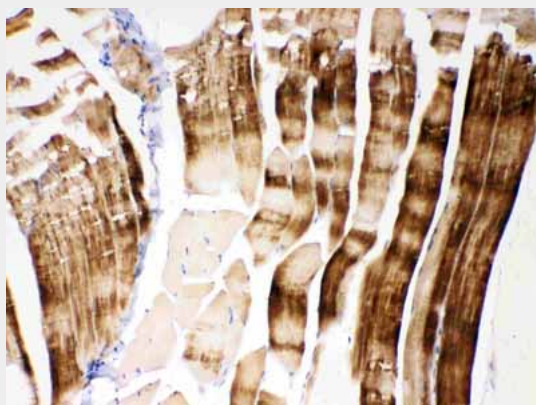
Provided below are standard protocols that you may find useful for product applications.

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

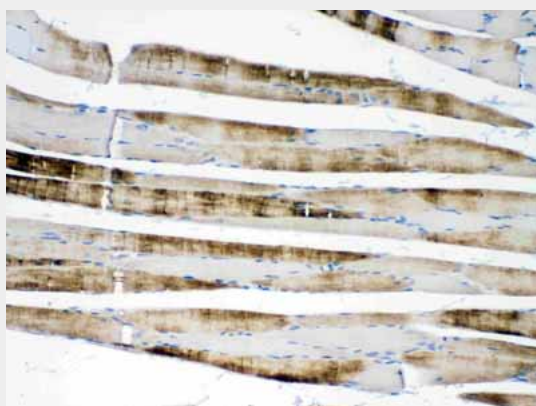
Anti-ACTN3 Picoband Antibody - Images

Western blot analysis of ACTN3 expression in rat skeletal muscle extract (lane 1), mouse skeletal muscle extract (lane 2) and HT080 whole cell lysates (lane 3). ACTN3 at 103KD was detected

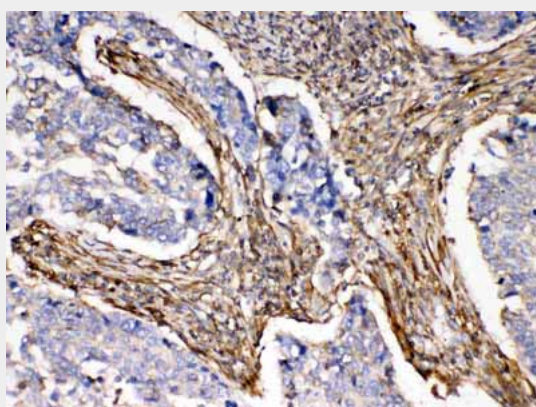
using rabbit anti- ACTN3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11644) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .



ACTN3 was detected in paraffin-embedded sections of mouse skeletal muscle tissues using rabbit anti- ACTN3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11644) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



ACTN3 was detected in paraffin-embedded sections of rat skeletal muscle tissues using rabbit anti- ACTN3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11644) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



ACTN3 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- ACTN3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11644) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Anti-ACTN3 Picoband Antibody - 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. 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.