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Anti-ACTN3 Picoband Antibody

Catalog # ABO11644

Specification

Anti-ACTN3 Picoband Antibody - Product Information

Application	**WB, IHC**
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 EADRERGAIMGIQGEIQKICQTYGLRPCSTNPYITLSPQDINT 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 r˚Constitution, 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.

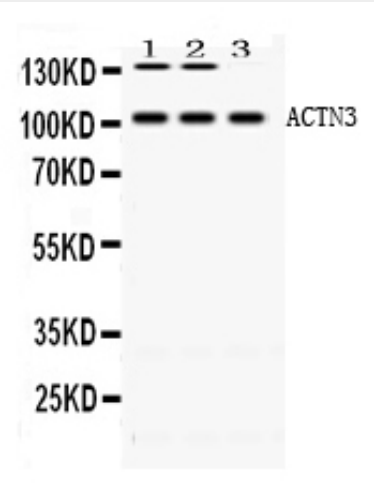
Tissue Location
Expressed only in a subset of type 2 skeletal muscle fibers.

Anti-ACTN3 Picoband Antibody - Protocols

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

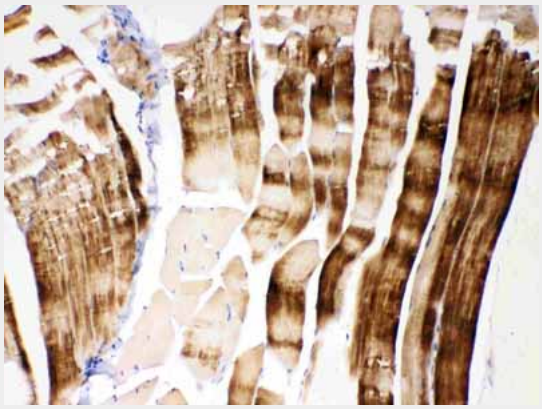
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ACTN3 Picoband Antibody - Images

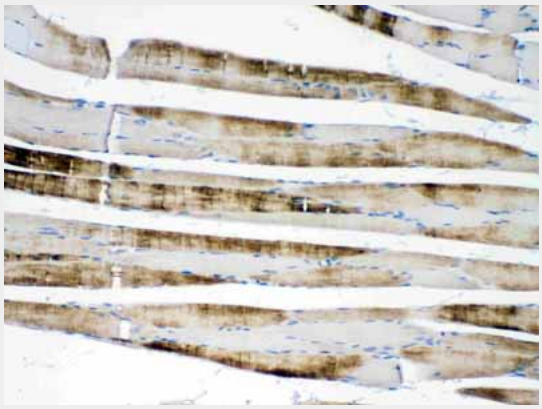


Western blot analysis of ACTN3 expression in rat skeletal muscle extract (lane 1), mouse skeletal muscle extract (lane 2) and HT080 whole cell lysates (lane 3). ACTN3 at 103KD was detected

using rabbit anti- ACTN3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11644) at 0.5 Î¼g/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 Î¼g/mL. The immunohistochemical section was developed using SABC method .



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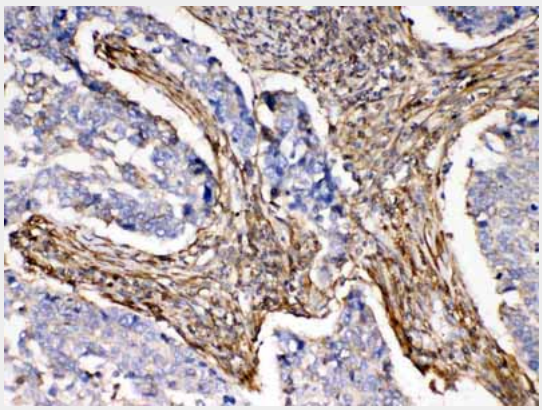

ACTN3 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- ACTN3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11644) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

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.