

Anti-ACTN3 Picoband Antibody

Catalog # ABO11644

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.

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
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. .
Source	Eukaryota
Protein Name	Alpha-actinin-3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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 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.

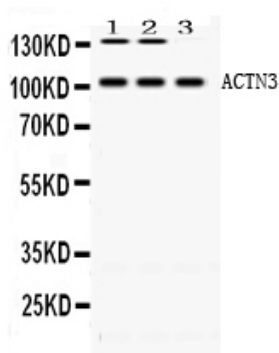
Protein Information

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).

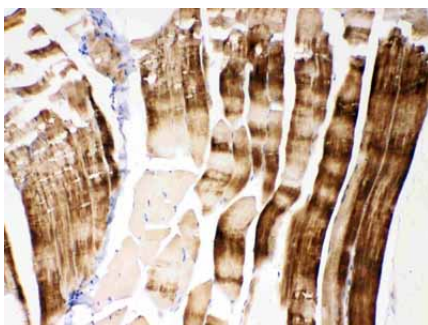
Background

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-actinin 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.

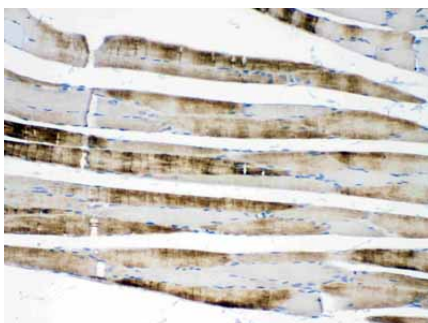
Images



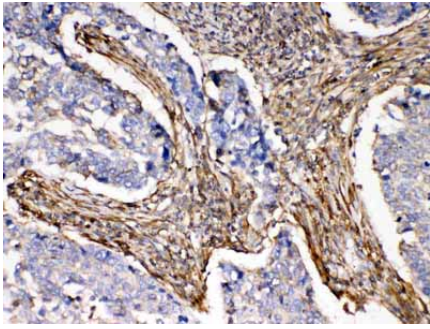
Western blot analysis of ACTN3 expression in rat skeletal muscle extract (lane 1), mouse skeletal muscle extract (lane 2) and HT080 whole cell lysates (lane 3). ACTN3 at 103KD was detected using rabbit anti- ACTN3 Antigen Affinity purified polyclonal antibody (Catalog # ABO11644) at 0.5 μ g/mL. The blot 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 .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.