

Rabbit ACTN3 Polyclonal Antibody | anti-ACTN3 antibody

Anti-ACTN3 Antibody

CATALOG # AAA46815	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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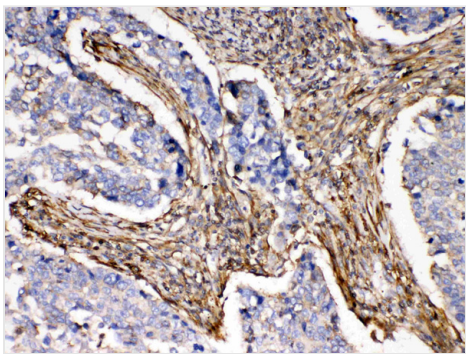
PRODUCT SYNONYMS

ACTN3; Polyclonal Antibody; Anti-ACTN3 Antibody; Actinin alpha 3; Alpha-Actinin 3; Alpha-actinin-3; ACTN 3; Q08043; actinin alpha 3 (gene/pseudogene); anti-ACTN3 antibody

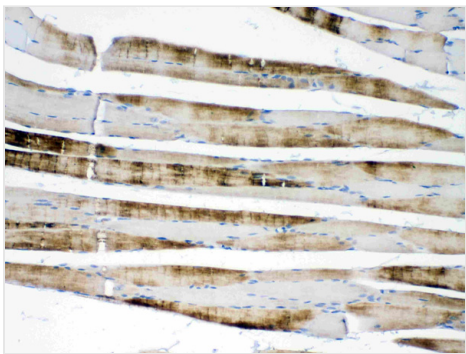
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	901
Applicable Applications for anti-ACTN3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
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.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

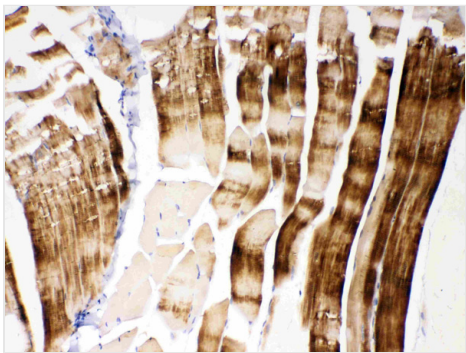
IMAGES



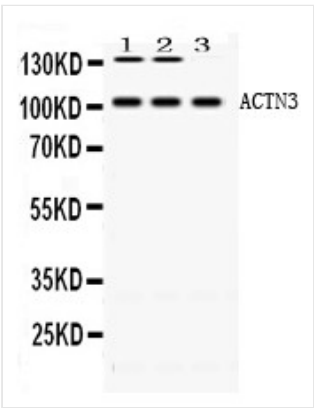
IHC (Immunohistochemistry)
ACTN3 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- ACTN3 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



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



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



WB (Western Blot)
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 at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti- ACTN3 antibody	Rabbit IgG polyclonal antibody for Alpha-actinin-3(ACTN3) detection. 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.
References	1. Papadimitriou ID, Papadopoulos C, Kouvatsi A, Triantaphyllidis C (April 2008). "The ACTN3 gene in elite Greek track and field athletes". Int J Sports Med 29 (4): 352-5. 2. Yang N, MacArthur DG, Gulbin JP, Hahn AG, Beggs AH, Eastel S, North K (September 2003). "ACTN3 genotype is associated with human elite athletic performance". Am. J. Hum. Genet. 73 (3): 627-31.

NCBI AND UNIPROT INFORMATION

NCBI GI #	585866354
NCBI GeneID	89
NCBI Accession #	NP_001095.2
NCBI GenBank Nucleotide #	NM_001104.3
UniProt Accession #	Q08043; Q4KKV2; A6NP77

Molecular Weight	103,241 Da
NCBI Official Full Name	alpha-actinin-3 isoform 1
NCBI Official Synonym Full Names	actinin alpha 3 (gene/pseudogene)
NCBI Official Symbol	ACTN3
NCBI Protein Information	alpha-actinin-3
UniProt Protein Name	Alpha-actinin-3
UniProt Gene Name	ACTN3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/actn3-antibody-immunohistochemistry-western-blot-elisa/46815>