Product datasheet Anti-ACTN3 Antibody (Clone#9B5)

BOSTER®

antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY

Catalog Number: M02693

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information	
Product Name	Anti-ACTN3 Antibody (Clone#9B5)
Gene Name	ACTN3
Source	Mouse
Clonality	Monoclonal
Isotype	lgG1
Species Reactivity	mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ACTN3, different from the related mouse sequence by five amino acids.
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	103 kDa
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

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.

Selected Validation Data

Product datasheet

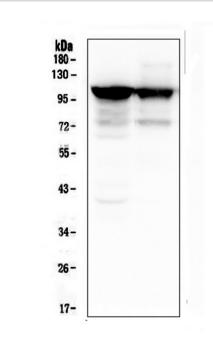
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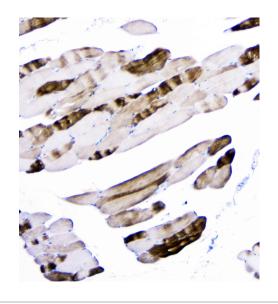


Western blot analysis of ACTN3 using anti-ACTN3 antibody (M02693). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat skeletal muscle tissue lysates,

Lane 2: mouse skeletal muscle tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-ACTN3 antigen affinity purified monoclonal antibody (M02693) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ACTN3 at approximately 103 kDa. The expected band size for ACTN3 is at 103 kDa.



IHC analysis of ACTN3 using anti-ACTN3 antibody (M02693). ACTN3 was detected in a paraffin-embedded section of human skeletal muscle tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-ACTN3 Antibody (M02693) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.