Product datasheet

Anti-ACTN3 Antibody

Catalog Number: *PB10026*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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
Gene Name	ACTN3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, FCM
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	Immunogen affinity purified.
Observed MW	103 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (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℃ as supplied.

Background Information

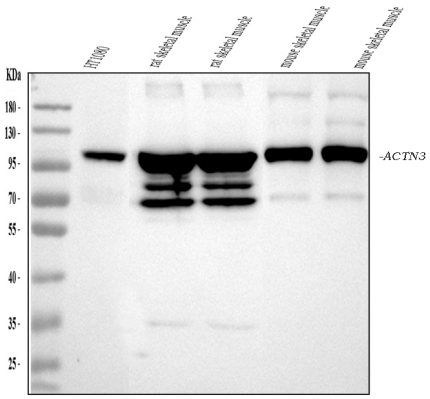
Alpha-actinin-3, also known as alpha-actinin skeletal muscle isoform 3 or F-actin cross-linking protein, is a protein that in humans is encoded by the ACTN3 gene. This gene encodes a member of the alpha-actin binding protein gene family. The encoded protein is primarily expressed in skeletal muscle and 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.

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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

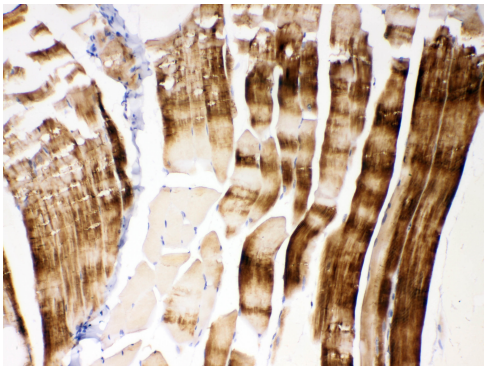
Reference

Anti-ACTN3 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of ACTN3 using anti-ACTN3 antibody (PB10026). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: HT1080 whole cell lysates,
Lane 2: rat skeletal muscle tissue lysates,
Lane 3: rat skeletal muscle tissue lysates,
Lane 4: mouse skeletal muscle tissue lysates,
Lane 5: mouse skeletal muscle tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ACTN3 antigen affinity purified polyclonal antibody (PB10026) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). 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.

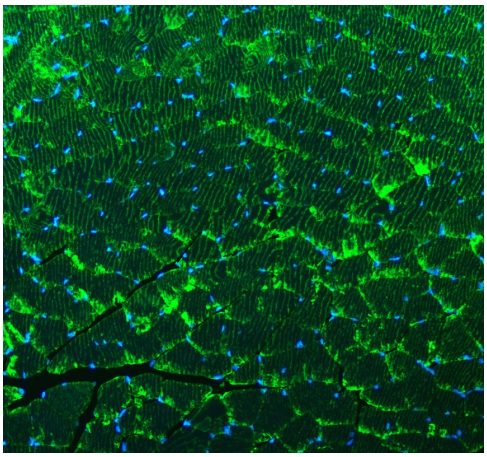


IHC analysis of ACTN3 using anti-ACTN3 antibody (PB10026).
ACTN3 was detected in a paraffin-embedded section of mouse skeletal muscle tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-ACTN3 Antibody (PB10026) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

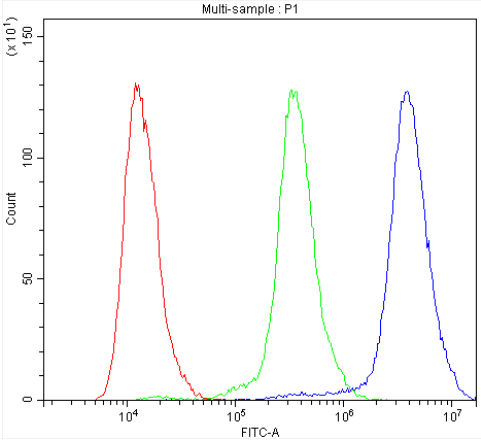
Anti-ACTN3 Antibody

Catalog Number: *PB10026*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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



IF analysis of ACTN3 using anti-ACTN3 antibody (PB10026).
ACTN3 was detected in a paraffin-embedded section of mouse skeletal muscle tissue. The tissue section was incubated with rabbit anti-ACTN3 Antibody (PB10026) at a dilution of 1:100. FITC Conjugated AffiniPure Goat Anti-rabbit IgG (H+L) Secondary Antibody (green) (Catalog # BA1105) was used as secondary antibody.



Flow Cytometry analysis of WISH cells using anti-ACTN3 antibody (PB10026).
Overlay histogram showing WISH cells stained with PB10026 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ACTN3 Antibody (PB10026) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.