

## Anti-Alpha Actinin/ACTN1 Antibody

Catalog Number: A02635-1

### About ACTN1

Alpha Actinins are highly conserved actin-binding proteins that form antiparallel homodimers with the actin-binding domains on each end of the molecule, allowing crosslinking of actin molecules. There are four alpha actinin isoforms identified: two ubiquitously expressed cytoskeletal isoforms (ACTN1 and ACTN4) and two striated muscle-specific sarcomeric isoforms (ACTN2 and ACTN3). ACTN1 is also alternatively spliced to form smooth muscle or brain specific isoforms. This antibody recognizes endogenous ACTN1, while it may cross-react with ACTN2 and ACTN4.

### Overview

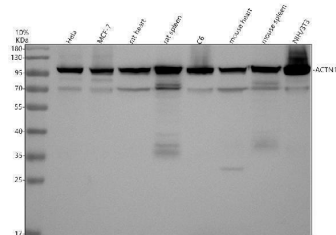
Product Name	Anti-Alpha Actinin/ACTN1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Alpha Actinin/ACTN1 Antibody catalog # A02635-1. Tested in WB, IHC, IF, ICC/IF, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg stabilizing protein and 50% glycerol *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P12814

### Technical Details

Immunogen	E.coli-derived human Alpha Actinin/ACTN1 recombinant protein (Position: Q545-E889).
Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-400 Immunofluorescence, 1:50-400 Immunocytochemistry/Immunofluorescence, 1:50-400

	ELISA, 1:100-1000
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## Anti-Alpha Actinin/ACTN1 Antibody (A02635-1) Images



Western blot analysis of ACTN1 using anti-ACTN1 antibody (A02635-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: rat heart tissue lysates, Lane 4: rat spleen tissue lysates, Lane 5: rat C6 whole cell lysates, Lane 6: mouse heart tissue lysates, Lane 7: mouse spleen tissue lysates, Lane 8: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ACTN1 antigen affinity purified polyclonal antibody (A02635-1) at 1:1000 overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for ACTN1 at approximately 105 kDa. The expected band size for ACTN1 is at 103 kDa.

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