Product datasheet Anti-ACTN2 Antibody Catalog Number: A03673-1



BOSTER BIOLOGICAL TECHNOLOGY

Special NO.1, International Enterprise Center, 2nd Guanshan Road, Wuhan, China

Web: www.boster.com.cn Phone: +86 027-67845390 Fax: +86 027-67845390 Email: boster@boster.com.cn

Basic Information		
Product Name	Anti-ACTN2 Antibody	
Gene Name	ACTN2	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, FCM, ELISA	
Contents	500 ug/ml antibody with PBS ,0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human ACTN2 recombinant protein (Position: E567-E696).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	103KD	
Dilution Ratios	Western blot(WB): Immunohistochemistry in paraffin section IHC Flow cytometry (FCM): ELISA: (Boiling the paraffin sections in 10mM citrate buffer mins is required for the staining of formalin/paraffir must be determined by end user.	

Storage

12 months from date of receipt, -20° C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Alpha-actinin 2 is a protein which in humans is encoded by the ACTN2 gene. Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a muscle-specific, alpha actinin isoform that is expressed in both skeletal and cardiac muscles. Several transcript variants encoding different isoforms have been found for this gene.

Selected Validation Data

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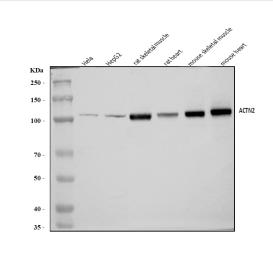


Figure 1. Western blot analysis of anti- ACTN2 antibody (A03673-1). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: HELA whole cell lysates,

Lane 2: HEPG2 whole cell lysates,

Lane 3: rat skeletal muscle tissue lysates,

Lane 4: rat heart tissue lysates,

Lane 5: mouse skeletal muscle tissue lysates,

Lane 6: mouse heart tissue lysates.

Use rabbit anti- ACTN2 1:1000, probed with a goat anti-rabbit IgG-

HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog #

EK1002). A specific band was detected for ACTN2 at approximately

103KD. The expected band size for ACTN2 is at 103KD.