# Product datasheet Anti-Actin/ACTA1 Antibody (Clone#5C5) Catalog Number: BM0001

BOSTER®

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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

Product Name	Anti-Actin/ACTA1 Antibody (Clone#5C5)	
Gene Name	ACTA1	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgM	
Species Reactivity	human, mouse, rat, chicken, fish, frog, monkey, rabbit, snake	
Tested Application	WB, IHC	
Contents	200ug/ml antibody with PBS ,0.02% NaN3 , 1mg BSA and 50% glycerol.	
Immunogen	Polypeptide	
Concentration	200ug/ml	
Purification	protein G purified.	
Observed MW	42 kDa	
Dilution Ratios		1:100-400 1:50-400 ate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 n/paraffin sections.) Optimal working dilutions must

## **Storage**

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

determined by end user.

## **Background Information**

The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects.

## Reference

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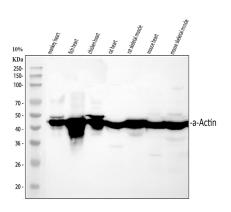


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Anti-Actin/ACTA1 Antibody (Clone#5C5)被引用在25文献中。

## **Selected Validation Data**



Western blot analysis of anti-Actin/ACTA1 antibody (BM0001). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: monkey heart tissue lysates,

Lane 2: fish heart tissue lysates,

Lane 3: chicken heart tissue lysates,

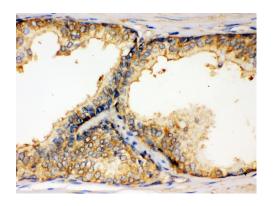
Lane 4: rat heart tissue lysates,

Lane 5: rat skeletal muscle tissue lysates,

Lane 6: mouse heart tissue lysates,

Lane 7: mouse skeletal muscle tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-Actin/ACTA1 antigen affinity purified monoclonal antibody (BM0001) 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 Actin/ACTA1 at approximately 42 kDa. The expected band size for Actin/ACTA1 is at 42 kDa.



IHC analysis using anti-ACTA1 antibody (BM0001). detected in paraffinembedded section of human prostatic cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

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