

Basic Information

Product Name	Anti-ACTA1 Antibody (Clone#5C5)	
Gene Name	ACTA1	
Source	Mouse	
Isotype	IgM	
Species Reactivity	human, mouse, rat, rabbit, frog, chicken, snake, fish, etc	
Tested Application	WB, IHC	
Contents	200ug/ml antibody with PBS , 0.02% NaN ₃ , 1mg BSA and 50% glycerol.	
Immunogen	A synthetic peptide	
concentration	200ug/ml	
Purification	protein G purified.	
Observed MW	42KD	
Dilution Ratios	Western blot(WB): 1:100-400 Immunohistochemistry in paraffin section (IHC): 1:50-400 (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. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

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

Anti-ACTA1 Antibody (Clone#5C5)被引用在8文献中。

Selected Validation Data

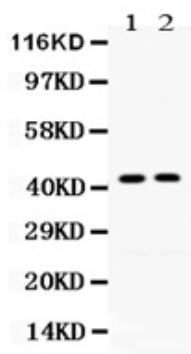


Figure 1. Western blot analysis of anti-ACTA1 antibody (BM0001).

The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: Rat skeletal muscle tissue lysates,

Lane 2: Mouse skeletal muscle tissue lysates, Use rabbit anti- ACTA1 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for ACTA1 at approximately 42KD. The expected band size for ACTA1 is at 42KD.

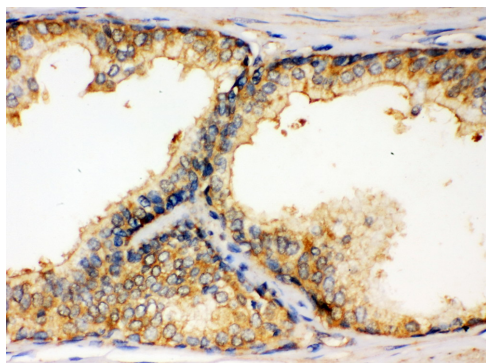


Figure 2. IHC analysis using anti-ACTA1 antibody (BM0001).

detected in paraffin-embedded section of human prostatic cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.