

## Basic Information

<b>Product Name</b>	Anti-Beta Actin/ACTB Antibody	
<b>Gene Name</b>	ACTB	
<b>Source</b>	Mouse	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG1	
<b>Species Reactivity</b>	human, mouse, rat, monkey, chicken, rabbit, pig	
<b>Tested Application</b>	WB, IHC	
<b>Contents</b>	200ug/ml antibody with PBS , 0.02% NaN <sub>3</sub> , 1mg BSA	
<b>Immunogen</b>	slightly modified beta-cytoplasmic actin N-terminal peptide, Ac-Asp-Asp-Asp-Ile-Ala-Ala-Leu-Val-Ile-Asp-Asn-Gly-Ser-Gly-Lys, conjugated to KLH.	
<b>Purification</b>	Ascites	
<b>Observed MW</b>	42 kDa(不适用于心肌样本的检测)	
<b>Dilution Ratios</b>	Western blot (WB):	1:5000-20000
	Immunohistochemistry (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 primary site of action of cytochalasin B on cell motility processes is beta-actin. Habets et al.(1992) generated hybrids that harbor only specific regions of human chromosome 7 and assigned the ACTB locus to 7p15-p12. ACTB and the other assigned beta-actin-related sequences are dispersed over at least four different chromosomes including one locus assigned to the X chromosome. A mutation of beta-actin that alters depolymerization dynamics is associated with autosomal dominant developmental malformations, deafness, and dystonia.

## Reference

Anti-Beta Actin/ACTB Antibody被引用在1316文献中。

## Selected Validation Data

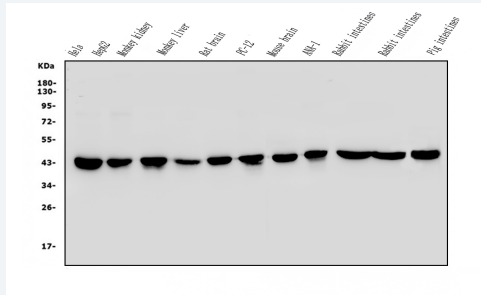


Figure 1. Western blot analysis of anti-  $\beta$ -Actin antibody (BM0627). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Human HELA whole cell lysates, Lane 2: Human HepG2 whole cell lysates, Lane 3: Monkey kidney tissue lysates, Lane 4: Monkey liver tissue lysates, Lane 5: Rat brain tissue lysates, Lane 6: Rat PC-12 whole cell lysates, Lane 7: Mouse brain tissue lysates, Lane 8: Mouse ANA-1 whole cell lysates, Lane 9: Rabbit intestines tissue lysates, Lane 10: Rabbit intestines tissue lysates, Lane 11: Pig intestines tissue lysates. Use rabbit anti-  $\beta$ -Actin 1:5000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for  $\beta$ -Actin at approximately 42KD. The expected band size for  $\beta$ -Actin is at 42KD.

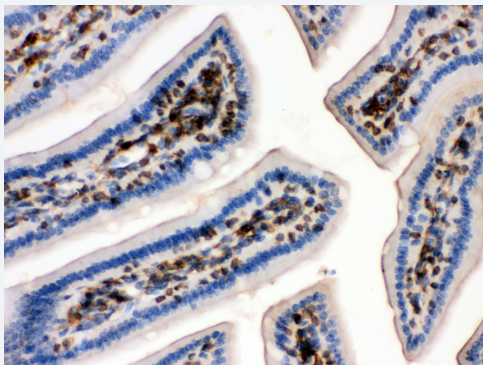


Figure 2. IHC analysis using anti-  $\beta$ -Actin antibody (BM0627). detected in paraffin-embedded section of Mouse Intestine tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.