

Basic Information

Product Name	Anti-Beta Actin/ACTB Antibody	
Gene Name	ACTB	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat, monkey, zebrafish	
Tested Application	WB, IHC, ICC/IF	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human beta Actin	
Purification	Immunogen affinity purified.	
Observed MW	42 kDa	
Dilution Ratios	Western blot (WB):	1:2000-20000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200

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200文献中。

Selected Validation Data

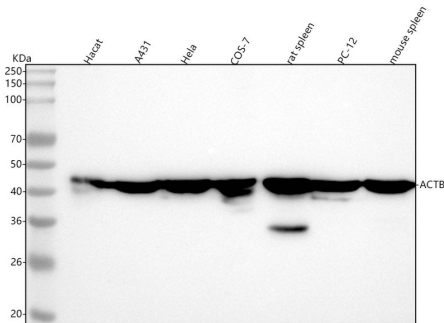


Figure 1. Western blot analysis of anti-Beta Actin/ACTB antibody (BM3873). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hecate whole cell lysates,

Lane 2: human A431 whole cell lysates,

Lane 3: human Hela whole cell lysates,

Lane 4: monkey COS-7 whole cell lysates,

Lane 5: rat spleen tissue lysates,

Lane 6: rat PC-12 whole cell lysates,

Lane 7: mouse spleen tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-Beta Actin/ACTB

antigen affinity purified monoclonal antibody (BM3873) at a dilution

of 1:2000 and probed with a goat anti-rabbit IgG-HRP secondary

antibody (Catalog # BA1054). The signal is developed using ECL

Plus Western Blotting Substrate (Catalog # AR1197). A specific

band was detected for Beta Actin/ACTB at approximately 42 kDa.

The expected band size for Beta Actin/ACTB is at 42 kDa.