

beta actin Monoclonal Antibody

Catalog No.	B-IO-10026	Reactivity	H,M,R,Mk,Ch,Dg,Hm,Rb
Storage	Store at -20°C. Avoid freeze /thaw cycles.	Host	Mouse
Applications	WB,IHC-p	Isotype	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images/Immunogen Information

Immunogen Synthetic Peptide

Swissprot P60709

Synonyms ACTB,Actin,cytoplasmic 1,Beta-actin

Product Information

Calculated MW 42kDa

Observed MW 43kDa

Buffer PBS with 0.02% sodium azide, 50% glycerol, pH7.4

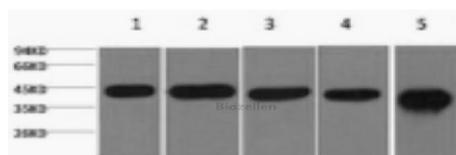
Purify Protein A purification

Clone No. Clone:2M3

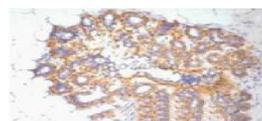
Dilution WB 1:2000-1:5000, IHC 1:50-1:200

Background

Beta actin, also named as ACTB and F-Actin, belongs to the actin family. Actins are highly conserved globular proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. At least six isoforms of actins are known in mammals and other vertebrates: alpha (ACTC1, cardiac muscle 1), alpha 1 (ACTA1, skeletal muscle) and 2 (ACTA2, aortic smooth muscle), beta (ACTB), gamma 1 (ACTG1) and 2 (ACTG2, enteric smooth muscle). Beta and gamma 1 are two non-muscle actin proteins. Most actins consist of 376aa, while ACTG2 (rich in muscles) has 375aa and ACTG1(found in non-muscle cells) has only 374aa. Beta actin has been widely used as the internal control in RT-PCR and Western Blotting as a 42-kDa protein. However, the 41 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody can recognize all the actins.



Western Blot analysis of 1) 293T, 2) Mouse kidney, 3) HeLa, 4) Rat heart,5) Rat brain using beta actin Monoclonal Antibody at dilution of 1:5000.



Immunohistochemistry of paraffin- embedded human ovary tissue using beta actin Monoclonal Antibody at dilution of 1:200.