



β-Actin Mouse Monoclonal Antibody

Cat. Number: UM4001
For Research Only

Description:

Synonyms:	β-Actin
Immunogen:	Full-length human β-Actin protein
Specificity:	Human, Rat, Mouse; Not reactivate in Bee, Fly, Zebra fish
Host Species:	mouse
Ig Isotype:	Mouse IgG1
Purification:	Protein A or G purified
Applications:	WB (1: 1000-1: 10000) , IHC(1:200), IF(1:200)
Band size:	43KD

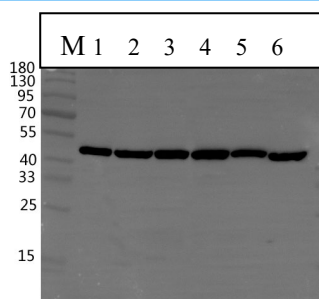
Formulation and Storage:

Formulation:	Liquid
Storage:	-20°C or lower

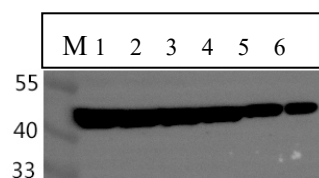
Background:

Mouse monoclonal beta Actin antibody makes a good loading control antibody. As the major cytoskeletal protein implicated in cell motility, actin is highly conserved and ubiquitously expressed in all eukaryotic cells, and is involved in various types of cellular process including locomotion, secretion, cytoplasmic streaming, phagocytosis, and cytokinesis. Characterized by electrophoresis and amino acid sequence analysis, actin is expressed in mammals and birds as at least six isoforms. Four of them represent the differentiation markers of muscle tissues and two are found practically in all cells. There are three α-actins (skeletal, cardiac, and smooth muscle), one β-actin (β-nonmuscle), and two γ-actins (γ-smooth muscle and γ-nonmuscle). Actin isoforms show >90% overall sequence homology, but only 50–60% homology in their NH₂-terminal residues.

Image



Lane1: Rat intestine tissue protein lysate
Lane2: Rat brain tissue protein lysate
Lane3: Rat kidney tissue protein lysate
Lane4: Mouse 3T3 cell lysate
Lane5: Human hek-2 cell lysate
Lane6: Human A549 cell lysate
β-Actin antibody(UM4001) at 1:5000 dilution



Lane1: Rat intestine tissue protein lysate 40ug
Lane2: Rat intestine tissue protein lysate 32ug
Lane3: Rat intestine tissue protein lysate 24ug
Lane4: Rat intestine tissue protein lysate 16ug
Lane5: Rat intestine tissue protein lysate 8ug
Lane6: Rat intestine tissue protein lysate 4ug
β-Actin antibody(UM4001) at 1:5000 dilution