Beta-Actin (ACTB) Antibody

Mouse Monoclonal Antibody [Clone ACTB/1109]

Catalog No	Format	Size
60-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
60-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
60-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

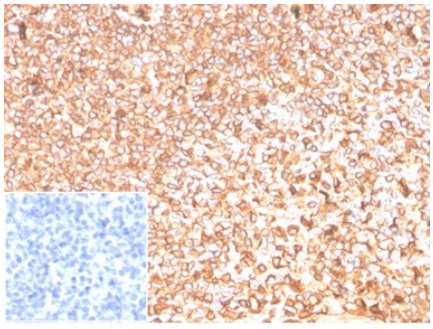
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

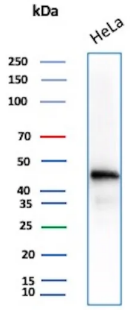
Clone	ACTB/1109
Gene Name	ACTB
Immunogen	Recombinant human ACTB protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	43kDa
Cellular Localization	Cytoplasm, Cytoskeleton, Nucleus
Species Reactivity	Human, Mouse, Rat
Positive Control	Human myoepithelial cells. HeLa, Jurkat or Raji cells.

**Optimal dilution for a specific application should be determined.*

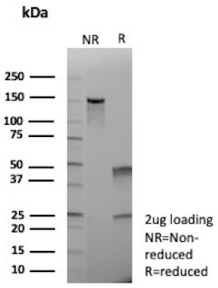
Product Images for Beta-Actin (ACTB) Antibody



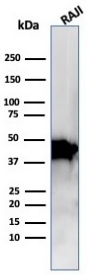
Formalin-fixed, paraffin-embedded human tonsil stained with Beta Actin / ß-Actin Mouse Monoclonal (ACTB/1109). Inset: PBS instead of primary antibody; secondary only negative control.



Western Blot Analysis of HeLa lysate using Beta Actin Mouse Monoclonal Antibody (ACTB/1109)



SDS-PAGE Analysis of Purified Actin beta (ACTB) Mouse Monoclonal Antibody (ACTB/1109). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of Raji cell lysate using Beta Actin / ß-Actin Mouse Monoclonal (ACTB/1109).

Specificity & Comments

All eukaryotic cells express Actin, which often constitutes as much as 50% of total cellular protein. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. While lower eukaryotes, such as yeast, have only one Actin gene, higher eukaryotes have several isoforms encoded by a family of genes. At least six types of Actin are present in mammalian tissues and fall into three classes. a-Actin expression is limited to various types of muscle, whereas ?-Actin and g-Actin are the principle constituents of filaments in other tissues. Members of the small GTPase family regulate the organization of the Actin cytoskeleton. Rho controls the assembly of Actin stress fibers and focal adhesion. Rac regulates Actin filament accumulation at the plasma membrane. Cdc42 stimulates formation of filopodia.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

BBB VCAM-1 Signaling, Developmental Biology, Immunology, Infectious Disease, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.