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Product datasheet for BM5534

Actin (ACTA1) Mouse Monoclonal Antibody [Clone ID: 647]

Product data:

Product Type:	Primary Antibodies
Clone Name:	647
Applications:	IF, IHC, WB
Recommended Dilution:	**Immunocytochemistry.** **Immunohistochemistry on Frozen Sections.** **Immunofluorescence.** **Immunoblotting:** One single band is reactive corresponding to Actin. *Working Dilution:* 1/5-1/10. Dilute immediately before use with PBS or TBS. *Recommended Positive Control:* Muscle or myofibrils.
Reactivity:	Chicken, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Antigen isolated from Chicken skeletal muscle cells
Specificity:	This Monoclonal antibody *647* is useful for studying the intracellular distribution and structure of Actin in the cytoskeletal system.
Formulation:	State: Supernatant State: Culture Supernatant Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	actin, alpha 1, skeletal muscle
Database Link:	Entrez Gene 58 Human P68133

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Background: The two major cytoskeletal proteins implicated in cell motility are actin and myosin. Actin and myosin are constituents of many cell types and are involved in a myriad of cellular processes including locomotion, secretion, cytoplasmic streaming, phagocytosis and cytokinesis. Although actin is one of the most conserved eukaryotic proteins, it is expressed in mammals and birds as at least six isoforms characterized by electrophoresis and amino acid sequence analysis. Four of them represent the differentiation markers of muscle tissues and two are found in practically all cells.

Synonyms: ACTA; Alpha-actin-1; ASMA; CFTD; CFTD1; CFTDM; MPFD; NEM1; NEM2; NEM3