

BM5534**Monoclonal Antibody to alpha skeletal muscle Actin / ACTA1 - Supernatant****Quantity:** 1 ml**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.**Uniprot ID:** [P68133](#)**NCBI:** [NP_001091.1](#)**GeneID:** [58](#)**Host / Isotype:** Mouse / IgM**Clone:** 647**Immunogen:** Antigen isolated from Chicken skeletal muscle cells**Format:** **State:** Culture Supernatant
Preservatives: 0.09% Sodium Azide**Applications:** **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.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.**Specificity:** This Monoclonal antibody 647 is useful for studying the intracellular distribution and structure of Actin in the cytoskeletal system.
Species: Human, Mouse, Rat, Chicken.
Other species not tested.**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.**General Readings:** 1. Kaehn K, Bachmann P, Falkenberg FW. Immunofluorescence staining of thin-filament sections not participating in actomyosin crossbridges: studies by use of a monoclonal antibody specific to actin. Cell Tissue Res. 1985;239(2):417-22. PubMed PMID: 3884165.