

Monoclonal Antibody to alpha skeletal muscle Actin / ACTA1 (N-term) - Purified

Catalog No.: AM11085PU-N

Quantity: 1 ml

Concentration: lot specific

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: [9606](#)

GeneID: [58](#)

Host / Isotype: Mouse / IgM

Recommended Isotype Controls: SM13P

Clone: 5C5.F8.C7

Immunogen: N-terminal decapeptide of alpha skeletal muscle isoform of actin

Format: **State:** Liquid purified Ig fraction

Purification: Protein A/G chromatography

Buffer System: PBS, pH 7.6 containing 1% BSA as stabilizer and 0.09% Sodium Azide as preservative

Applications: **Immunohistochemistry on paraffin sections:** 1/50

Antigen Retrieval: Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

Incubation time: 30 minutes at RT.

Positive control: Skeletal muscle

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: 5C5.F8.C7 MAb is highly specific and shows no cross-reaction with smooth muscle actin. This antibody reacts with sarcomeric actins of normal tissues and neoplasms derived from such tissues (i.e. rhabdomyosarcomas).

Species: Human.

Other species not tested.

Storage: Store the antibody undiluted at 2-8°C.
DO NOT FREEZE!
Shelf life: one year from despatch.

Pictures: Human skeletal muscle stained with anti-actin antibody

