

Product datasheet for **DM128-05**

Actin (ACTA1) Mouse Monoclonal Antibody [Clone ID: 5C5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5C5
Applications:	IHC
Recommended Dilution:	This antibody may be diluted to a titer of 1:25-1:50 in an ABC method. Suitable for formalin/paraffin tissues. We suggest an incubation period of 30 minutes at room temperature. Recommended positive control: skeletal muscle.
Reactivity:	Human
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Purified rabbit striated muscle actin
Specificity:	This antibody is specific to alpha-skeletal and alpha-cardiac muscle actins. Monoclonal anti-alpha-sarcomeric Actin has been used as a marker for rhabdomyosarcoma. Cellular localization: cytoplasmic.
Formulation:	State: Supernatant State: Diluted ascites containing sodium azide as preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C.
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

Product images:

Formalin fixed paraffin embedded human skeletal muscle stained with sarcomeric Actin antibody (clone 5C5)