

Product datasheet for **TA355275**

Actin (ACTA1) Mouse Monoclonal Antibody [Clone ID: SC28]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SC28
Applications:	IHC
Recommended Dilution:	1:400
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Prokaryotic recombinant protein corresponding to 187 amino acids of the human MSA molecule
Specificity:	Human muscle specific actin
Formulation:	Liquid tissue culture supernatant containing 15 mM sodium azide as a preservative
Conjugation:	Unconjugated
Storage:	Store at 2-8°C
Stability:	12 months
Gene Name:	actin, alpha 1, skeletal muscle
Database Link:	Entrez Gene 58 Human P68133



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Background:

Muscle specific actin (MSA) is a highly conserved, ubiquitous protein found in muscle and some non-muscle cells. Actins can be divided into three subsets, alpha actins found in muscle tissue cells, beta and gamma actins found in non-muscle cells and a small subset of gamma actins also found in muscle tissue cells. In normal tissues, expression is found in striated fibers of skeletal muscle, smooth muscle in arteries, veins and pericytes of smaller arteries, muscle in bowel, myometrium of the uterus, prostatic stroma, capsule cells of liver, kidney, lymph node and spleen, the myoepithelial layers of mammary ducts and glands, eccrine sweat glands and salivary glands. Expression is not found in epithelial cells, lymphoid cells, macrophages, connective tissue and neuronal cells. In neoplastic tissues, expression can be found in soft tissue tumors with muscle differentiation, for example, leiomyomas, leiomyosarcomas and rhabdomyosarcomas of varying subtypes. Non-muscle sarcomas, carcinomas, melanomas and lymphomas do not express muscle specific actin.

Synonyms:

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