

## Monoclonal Antibody to Actin (pan alpha) - Purified

<b>Catalog No.:</b>	AM00527PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.2 mg/ml
<b>Background:</b>	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. In vertebrates 3 main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton and as mediators of internal cell motility.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
<b>Clone:</b>	MSA06
<b>Immunogen:</b>	Purified Actin
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Protein G Chromatography. <b>Buffer System:</b> 10 mM PBS, pH 7.4, with 0.2% BSA and 0.09% Sodium Azide.
<b>Applications:</b>	<b>Immunofluorescence.</b> <b>Immunohistology (Formalin/Paraffin):</b> Use Ab at 1-2 µg/ml for 30 min at RT. (no special pretreatment is required for immunohistochemical staining of formalin-fixed tissues). <i>Recommended Positive Control:</i> Muscle or sarcoma. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts with alpha-smooth muscle as well as alpha-skeletal and alpha-cardiac (sarcomeric) isoform of Actin. This pan muscle Actin antibody reacts with tumors arising from smooth muscle (leiomyosarcomas) as well as skeletal muscle (rhabdomyosarcomas). Cellular Localization: Cytoplasmic <b>Species:</b> Human, Mouse, Rat, Porcine, Horse, Bovine, Canine. Other species not tested.
<b>Storage:</b>	Store the antibody 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.
<b>General Readings:</b>	1. Tsukada T. et al. Am J Pathol 1987, 126:51. 2. Tsukada T. et. al. Am J Pathol 1987, 127:389.

**Pictures:**

Formalin-fixed, paraffin-embedded human rectum stained with Actin (AM00527PU-N) using peroxidase-conjugate and AEC chromogen. Note cytoplasmic staining of smooth muscles.

