

## Product datasheet for **AM09118PU-N**

### alpha smooth muscle Actin (ACTA2) (N-term) Mouse Monoclonal Antibody [Clone ID: ASM-1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	ASM-1
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunofluorescence Microscopy Immunoblotting (Western). Cytological Material. Immunohistochemistry on Frozen and Paraffin-Embedded Tissue.</b> <i>Pretreatment:</i> With paraffin embedded sections, protease pretreatment is required prior to antibody application. <i>Working Dilution:</i> Ready-to-use for Immunohistochemical application. <i>Incubation Time:</i> 1 h at RT; extended with paraffin.
Reactivity:	Bovine, Chicken, Equine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Synthetic N-terminus decapeptide of alpha-smooth-muscle isoform of Actin.
Specificity:	ASM-1 represents an excellent marker for myogenic soft tissue tumors and smooth muscle differentiation. <b>Polypeptide reacting:</b> specific for alpha-smooth-muscle isoform of actin (Mr 43,000). <b>Tumors Specifically Detected:</b> leiomyosarcoma, leiomyoma, certain stromal cells surrounding infiltrating ductal carcinoma of breast. <b>Tested Reactivities on Cultured Cell lines:</b> Stress fibers of smooth muscle-derived cells and some smooth muscle subtype fibroblasts.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction Stabilizer: 0.5% BSA Preservative: 0.09% Sodium Azide
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated



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<b>Storage:</b>	Store the antibody undiluted at 2-8°C
<b>Stability:</b>	Shelf life: One year from despatch.
<b>Gene Name:</b>	actin, alpha 2, smooth muscle, aorta
<b>Database Link:</b>	<a href="#">Entrez Gene 11459 Mouse</a> <a href="#">Entrez Gene 29437 Rat</a> <a href="#">Entrez Gene 59 Human P62736</a>
<b>Background:</b>	<p>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.</p>
<b>Synonyms:</b>	ACTSA, ACTVS, Alpha-actin-2
<b>Protein Families:</b>	Stem cell - Pluripotency