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AM10020PU-N Monoclonal Antibody to ACTA2 / aortic smooth muscle Actin - Purified

Alternate names:	ACTSA, ACTVS, Alpha-actin-2, Cell growth-inhibiting gene 46 protein
Quantity:	1 ml
Concentration:	0.2 mg/ml
Background:	Actin is a globular, roughly 42-kDa protein found in all eukaryotic cells. Actin participates in many important cellular functions, including muscle contraction cell motility cell division and cytokinesis vesicle and organelle movement, cell signaling, and the establishment and maintenance of cell junctions and cell shape. Expression of smooth muscle alpha actin is regulated by hormones and cell proliferation and is altered by pathological conditions including onogenic transformation and atherosclerosis.
Uniprot ID:	P62736
NCBI:	NP_001135417.1
GeneID:	59
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	Aasm 204 (1A4)
Immunogen:	N-terminal decapeptide of alpha smooth muscle isoform of actin, acetylated at the N-terminus. **Remarks:** Epitope: Acetyl group with N- terminal four amino acids of peptide chain of alpha smooth muscle.
Format:	**State:** Liquid purified Ig fraction. **Buffer System:** PBS, pH 7.4 containing 1% BSA as stabilizer and 0.05% Sodium Azide as preservative.
Applications:	Suitable for Immunohistochemistry and Immunocytochemistry (Frozen or Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections and cell smears) For IHC dilute concentared antibody at 1/50-1/100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature. Recommended Positive Control: Human uterus, gastrointestinal tissue, Leiomyosarcoma. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises ACTIN alpha Smooth Muscle. Cellular Localization: Cytoplasmic. **Species:** Human, Baboon, Bovine, Rabbit, Rat, Mouse and Chicken. Other species not tested.

Storage: Store the antibody undiluted at 2-8 °C.
Shelf life: One year from despatch.

General Readings:

1. Skalli, O et. al. J of cell Biology, 103: 2787-2796, 1986.
2. Miwa, T et. al. Mol. cell Biology, 11: 3296-3304, 1991