

Product datasheet for **AM10020PU-S**

alpha smooth muscle Actin (ACTA2) Mouse Monoclonal Antibody [Clone ID: Aasm 204 (1A4)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Aasm 204 (1A4)
Applications:	IHC
Recommended Dilution:	Suitable for Immunohistochemistry and Immunocytochemistry (Frozen or Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections and cell smears) For IHC dilute concentrated 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.
Reactivity:	Bovine, Chicken, Human, Mouse, Rabbit, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	N-terminal decapeptide of alpha smooth muscle isoform of actin, acetylated at the N-terminus.
Specificity:	This antibody recognises ACTIN alpha Smooth Muscle. Cellular Localization: Cytoplasmic.
Formulation:	PBS, pH 7.4 containing 1% BSA as stabilizer and 0.05% Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8 °C.
Stability:	Shelf life: One year from despatch.
Gene Name:	actin, alpha 2, smooth muscle, aorta
Database Link:	Entrez Gene 59 Human P62736



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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 oncogenic transformation and atherosclerosis.

Synonyms:

ACTSA, ACTVS, Alpha-actin-2