ImmunoBioScience Corp. (IBSC) *DATA SHEET*ACTIN α (alpha) SMOOTH MUSCLE, Mouse MAb anti-human

**Catalog number:**-MM-1004-010.5 ml Concentrated IgG1 0.2 mg/ml

MM-1004-02 1.0 ml Concentrated IgG1 0.2 mg/ml

MM-1004-04 7.0 ml Prediluted for IHC IgG1 ~4µg/ml

**Buffer:** The concentrated antibodies are supplied in PBS with 1% BSA, 0.05% azide, and pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description:** 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.

**Intended Use**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC)

**Storage:** 2-8°C

**Clone**: Aasm 204 (1A4) **Isotype:** IgG2a, / κ

**Epitope:** Acetyl group with N- terminal four amino acids of peptide chain of alpha smooth muscle.

**Immunogen:**.N-terminal decapeptide of alpha smooth muscle isoform of actin, acetylated at the N-terminus.

**Species reactivity:** Human, baboon, bovine, rabbit, rat, mouse, chicken, others not tested.

**Cellular Localization:** Cytoplasmic

**Recommended positive control:** Human uterus, gastrointestinal tissue, Leiomyosarcoma

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections and cell smears.

For IHC dilute conc. antibodies 1:50-1:100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature.

Prediluted antibody is ready to be used for IHC.

The optimum dilution should be determined by the individual lab.

**General References:**

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

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

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“*In vitro* laboratory products for research”

Phone: + 1 425 367 4601; Fax: + 1 425 367 4817; cell (mobile) phone: + 1 425 314 0199

Marketing phone: + 1 650 343 IBSC (4272); e-mail:anitaIBSC@aol.com

Web site: [www.immunobioscience.com](http://www.immunobiosci.com); E-mail: [baderbo@gmail.com](mailto:baderbo@gmail.com)

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