

**Mouse Anti-Actin Smooth Muscle (ASM) [1A4]: MC0004, MC0004RTU7**

**Intended Use:** For Research Use Only

**Description:** This antibody recognizes actin isotypes alpha of smooth muscle and those cells with myofibroblast differentiation. It labels smooth muscular cells, myofibroblasts, and myoepithelial cells. Using this antibody with other myogenic markers such as muscle actin, desmin and vimentin will be very helpful for differentiation of tumor from muscle origin. It is a useful marker for the identification leiomyosarcomas. It is a useful marker for distinct ion benign proliferative lesions of the breast from neoplastic proliferations.

**Specifications:**

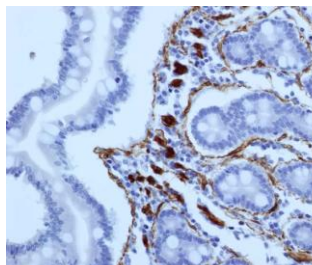
Clone: 1A4  
Source: Mouse  
Isotype: IgG2a  
Reactivity: Human  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.2, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>).  
Storage: Store at 2°- 8°C  
Applications: IHC, ELISA, ICC/IF, WB  
Package:

Description	Catalog No.	Size
Actin Smooth Muscle Concentrated	MC0004	1 ml
Actin Smooth Muscle Prediluted	MC0004RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Gastrointestinal tract  
Concentrated Dilution: 100-300  
Pretreatment: None  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human small intestine stained with anti-Actin Smooth Muscle using DAB

**References:**

1. Inflammation increases cells expressing ZSCAN4 and progenitor cell markers in the adult pancreas. Ko SB, et al. Am J Physiol Gastrointest Liver Physiol 304:G1103-16, 2013.
2. FGFR2 signaling underlies p63 oncogenic function in squamous cell carcinoma. Ramsey MR, et al. J Clin Invest 123:3525-38, 2013.
3. Central Role of Cellular Senescence in TSLP-Induced Airway Remodeling in Asthma. Wu J, et al. PLoS One 8:e77795, 2013.
4. Bone marrow-derived cells may not be the original cells for carcinogen-induced mouse gastrointestinal carcinomas. Yang C, et al. PLoS One 8:e79615, 2013.
5. A collagen-poly (actic acid-co-?-caprolactone) hybrid scaffold for bladder tissue regeneration. Engelhardt EM, et al. Biomaterials 32:3969-76, 2011.

Doc. 100-MC0004  
Rev. A