

**Mouse Anti-Actin Muscle Specific [MSA/953]: MC0603, MC0603RTU7**

**Intended Use:** For Research Use Only

**Description:** This antibody recognizes all muscular actin isoforms. It labels myoepithelial, smooth muscle, skeletal, cardiac muscle cells and leiomyomas. It has been reported to react with pericytes and reactive myofibroblasts. Positive staining cells have been reported in some sarcomas, representing either myofibroblasts or pericytes components. Using this antibody with other myogenic markers such as smooth muscle actin, desmin and vimentin will be very helpful for differentiation of tumor from muscle origin. Clone HHF35 has been demonstrated to be reliable marker for soft tissue tumors with muscle differentiation, i.e. leiomyomas, leiomyosarcomas, and rhabdomyosarcomas.

**Specifications:**

Clone: MSA/953  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human, rabbit, rat  
 Localization: Cytoplasm  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, WB  
 Package:

Description	Catalog No.	Size
Actin Muscle Specific Concentrated	MC0603	1 ml
Actin Muscle Specific Concentrated	MC0603RTU7	1 ml

**IHC Procedure\*:**

Positive Control Tissue: Gastrointestinal tract  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 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 leiomyosarcoma stained with anti-Actin Muscle Specific using DAB

**References:**

1. Live cell imaging reveals actin-cytoskeleton-induced self-association of the actin-bundling protein WLIM1. Hoffmann C, et al. J Cell Sci 127:583-98, 2014.
2. Antibody specific to muscle actins in the diagnosis and classification of soft tissue tumors. Miettinen M. Am J Pathol 130:205-15, 1988.
3. Diagnosis of rhabdomyosarcomas with HHF35, a monoclonal antibody directed against muscle actins. Schmidt RA, et al. Am J Pathol 131:19-28, 1988.
4. HHF35, a muscle-actin-specific monoclonal antibody. I. Immunocytochemical and biochemical characterization. Tsukada T, et al. Am J Pathol 126:51-60, 1987.