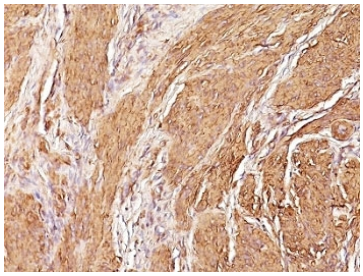
Muscle Specific Actin Antibody SPM160 / Mouse Monoclonal [clone SPM160] (V9114)

Catalog No.	Formulation	Size
V9114-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V9114-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20
V9114SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100
V9114IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM160
Purity	Protein G affinity chromatography
UniProt	P62736, P68032, P68133
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Muscle Specific Actin Antibody SPM160 is available for research use only.



Muscle Specific Actin Antibody SPM160 IHC: Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Muscle Specific Actin antibody (clone SPM160).

Description

Muscle Specific Actin Antibody SPM160 recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium. Actin can be resolved on the basis of its isoelectric points into three distinctive components: alpha, beta, and gamma in order of increasing isoelectric point. Anti-muscle specific actin recognizes alpha and gamma isotype of all muscle groups. Non-muscle cells such as vascular endothelial cells and connective tissues are non-reactive. Also, neoplastic cells of non-muscle-derived tissue such as carcinomas, melanomas, and lymphomas are negative. It stains tumors of smooth muscle (leiomyomas and leiomyosarcomas) as well as skeletal muscle (rhabdomyomas and rhabdomyosarcomas).

For an alternative antibody recognizing muscle-specific actin isoforms, see our Muscle Actin Antibody HHF35, a mouse monoclonal antibody with extensive research use and validation by western blot and immunohistochemistry.

Application Notes

The optimal dilution of the Muscle Specific Actin Antibody SPM160 for each application should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Human myocardium extract was used as the immunogen for this Muscle Specific Actin Antibody SPM160.

Storage

Store the Muscle Specific Actin Antibody SPM160 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Pan Muscle Actin antibody, Muscle Specific Actin antibody, Muscle Actin HHF35 antibody, Muscle Alpha Actin antibody, Muscle Gamma Actin antibody, Sarcomeric Actin antibody, Smooth Muscle Actin antibody, Cardiac Muscle Actin antibody, Skeletal Muscle Actin antibody

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