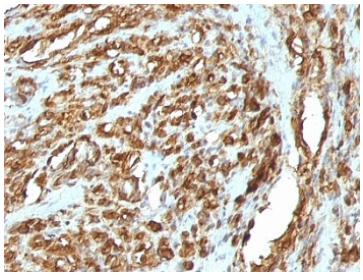
Pan Muscle Actin Antibody Cocktail HHF35 + MSA/953 / Mouse MAb Cocktail [clone HHF35 + MSA/953] (V3102)

Catalog No.	Formulation	Size
V3102-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3102-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20
V3102SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100
V3102IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7

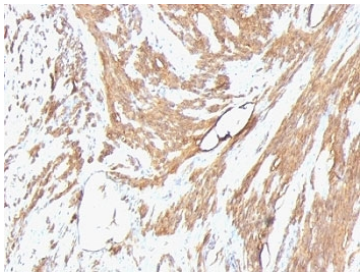
Citations (6)

Bulk quote request

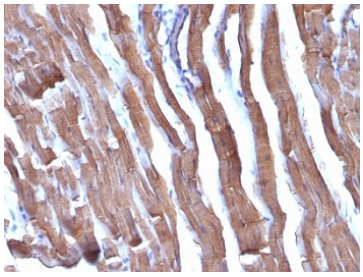
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HHF35 + MSA/953
Purity	Protein G affinity chromatography
UniProt	P62736, P68032, P68133
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 0.25-0.5ug/ml for 30 min at RT
Limitations	This Pan Muscle Actin Antibody Cocktail HHF35 + MSA/953 is available for research use only.



Pan Muscle Actin Antibody Cocktail HHF35 + MSA/953 IHC: Formalin-fixed, paraffin-embedded human rhabdomyosarcoma stained with pan Muscle Actin antibody (clones HHF35 + MSA/953).



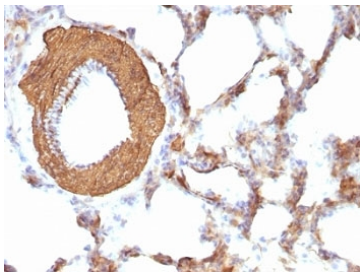
IHC: Formalin-fixed, paraffin-embedded human leiomyosarcoma stained with pan Muscle Actin antibody



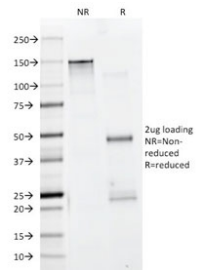
IHC: Formalin-fixed, paraffin-embedded rat heart stained with pan Muscle Actin antibody



IHC: Formalin-fixed, paraffin-embedded rat stomach stained with pan Muscle Actin antibody



IHC: Formalin-fixed, paraffin-embedded rat lung stained with pan Muscle Actin antibody



SDS-PAGE analysis of purified, BSA-free pan Muscle Actin antibody cocktail antibody (clone HHF35 + MSA/953) as confirmation of integrity and purity.

Description

Pan Muscle Actin Antibody Cocktail HHF35 + MSA/953 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 isotypes 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

Optimal dilution of the Pan Muscle Actin Antibody Cocktail HHF35 + MSA/953 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 min.
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

Recombinant human actin fragment was used as the immunogen for the Pan Muscle Actin Antibody Cocktail HHF35 + MSA/953.

Storage

Store the Pan Muscle Actin Antibody Cocktail HHF35 + MSA/953 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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