

# Actin, Muscle Specific (Muscle Cell Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone MSA/953 ]

Catalog # AH12999

## Product Information

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<b>Application</b>	WB, IHC, IF, FC
<b>Primary Accession</b>	<a href="#">P62736</a>
<b>Other Accession</b>	<a href="#">58</a> , <a href="#">59</a> , <a href="#">70</a> , <a href="#">118127</a> , <a href="#">1288</a> , <a href="#">500483</a> , <a href="#">P68032</a> , <a href="#">P68133</a>
<b>Reactivity</b>	Human, Rat, Rabbit
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	Mouse / IgG1, kappa
<b>Clone Names</b>	MSA/953
<b>Calculated MW</b>	42009

## Additional Information

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<b>Gene ID</b>	59
<b>Other Names</b>	Actin, aortic smooth muscle, Alpha-actin-2, Cell growth-inhibiting gene 46 protein, ACTA2, ACTSA, ACTVS
<b>Application Note</b>	WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
<b>Storage</b>	Store at 2 to 8°C.Antibody is stable for 24 months.
<b>Precautions</b>	Actin, Muscle Specific (Muscle Cell Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ACTA2
<b>Synonyms</b>	ACTSA, ACTVS
<b>Function</b>	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
<b>Cellular Location</b>	Cytoplasm, cytoskeleton.

## Background

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This antibody 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).

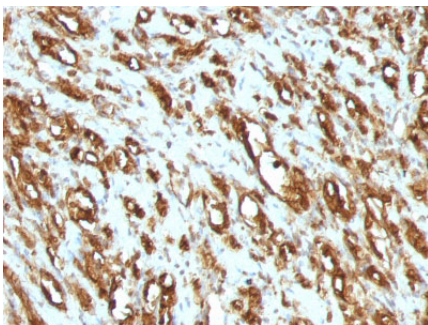
## References

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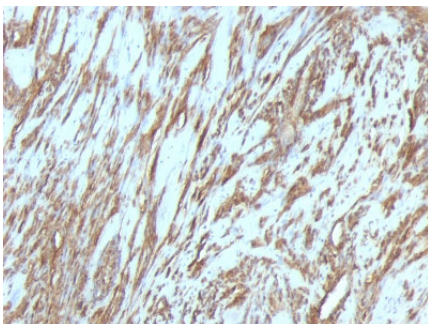
Barkalow, K. and Hartwig, J.H. 1995. Actin cytoskeleton. Setting the pace of cell movement. Curr. Biol. 5: 1000-1002. |

## Images

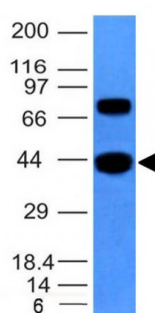
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Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)

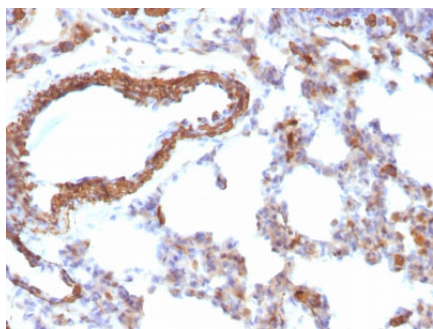


Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)

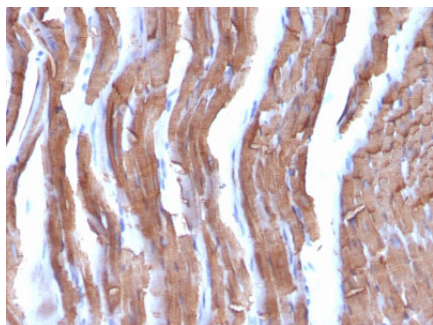


Western Blot of hSKM Cell Lysate using Muscle Specific Actin Monoclonal Antibody (MSA/953)

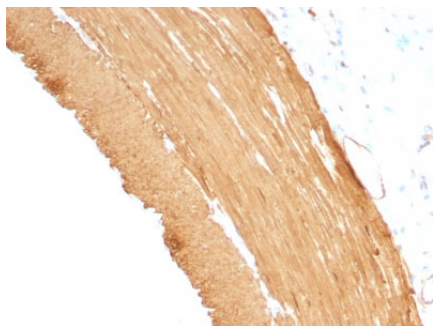
Formalin-fixed, paraffin-embedded Rat Lung stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



Formalin-fixed, paraffin-embedded Rat Heart stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



Formalin-fixed, paraffin-embedded Rat Stomach stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



Formalin-fixed, paraffin-embedded Rat Skeletal Muscle stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.