

# Actin, Smooth Muscle (Leiomyosarcoma Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone 1A4 + ACTA2/791 ]

Catalog # AH12226

## Product Information

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<b>Application</b>	IHC, IF, FC
<b>Primary Accession</b>	<a href="#">P62736</a>
<b>Other Accession</b>	<a href="#">59</a> , <a href="#">500483</a>
<b>Reactivity</b>	Human, Rat
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	Mouse / IgG's
<b>Clone Names</b>	1A4 + ACTA2/791
<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>	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, Smooth Muscle (Leiomyosarcoma 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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Actin is a major component of the cytoskeleton and is present in most cell types. It is highly specific to actin from smooth muscles. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. This antibody could be used together with anti-muscle specific actin and myogenin in making a diagnosis of smooth muscle and skeletal muscle tumors. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.

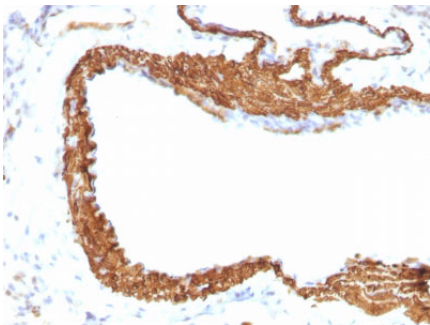
## References

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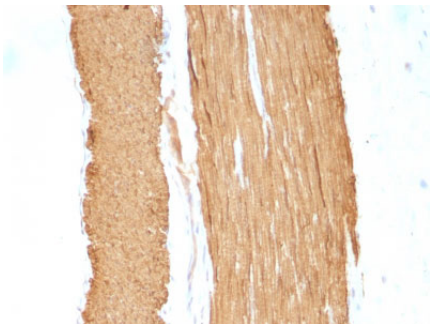
Gown, A.M., et al. 1985. A smooth muscle-specific monoclonal antibody recognizes smooth muscle actin isozymes. J. Cell Biol. 100: 807-813. |

## Images

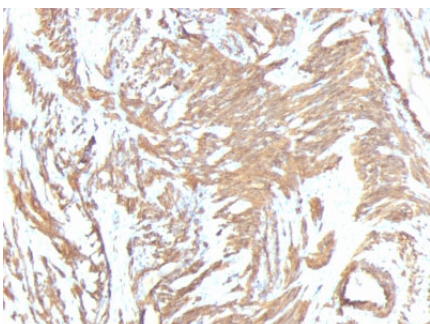
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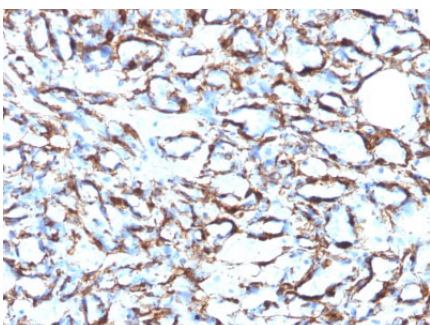
Formalin-fixed, paraffin-embedded Rat Lung stained with Smooth Muscle Actin Monoclonal Antibody (1A4 + ACTA2/791).



Formalin-fixed, paraffin-embedded Rat Stomach stained with Smooth Muscle Actin Monoclonal Antibody (1A4 + ACTA2/791).



Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Smooth Muscle Actin Monoclonal Antibody (1A4 + ACTA2/791).



Formalin-fixed, paraffin-embedded human Angiosarcoma stained with Smooth Muscle Actin Monoclonal Antibody (1A4 + ACTA2/791).

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