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

Mouse Monoclonal Antibody [Clone SPM332 ]
Catalog # AH10708

## Product Information

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|---|---|
| **Application** | IF, FC, IHC-P |
| **Primary Accession** | P62736 |
| **Other Accession** | 59, 500483 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Monkey, Pig, Chicken, Goat, Bovine, Baboon, Sheep, Cat, Guinea Pig, Dog |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgG2a, kappa |
| **Clone Names** | SPM332 |
| **Calculated MW** | 42009 |

## Additional Information

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|---|---|
| **Gene ID** | 59 |
| **Other Names** | Actin, aortic smooth muscle, Alpha-actin-2, Cell growth-inhibiting gene 46 protein, ACTA2, ACTSA, ACTVS |
| **Application Note** | IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A |
| **Format** | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| **Storage** | Store at 2 to 8°C.Antibody is stable for 24 months. |
| **Precautions** | 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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|---|---|
| **Name** | ACTA2 |
| **Synonyms** | ACTSA, ACTVS |
| **Function** | Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. |
| **Cellular Location** | Cytoplasm, cytoskeleton. |

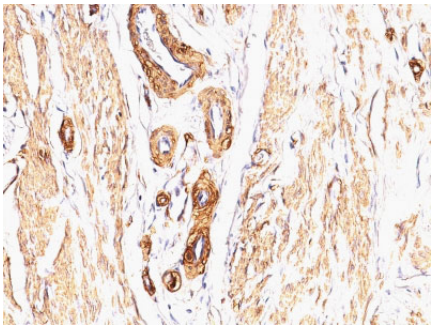
## Background

Actin is a major component of the cytoskeleton and is present in most cell types. This MAb is highly specific to actin from smooth muscles. Its epitope lies in the first four N-terminal amino acids. 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

Skalli O et. al. Journal of Cell Biology, 1986, 103:2787-96

## Images



Formalin-fixed, paraffin-embedded Leiomyosarcoma stained with Smooth Muscle Actin Monoclonal Antibody (SPM332).

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