

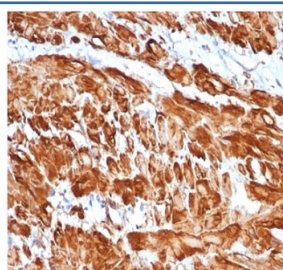
## Smooth Muscle Actin Antibody [clone rACTA2/1625] (V9287)

Catalog No.	Formulation	Size
V9287-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9287-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20
V9287SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100

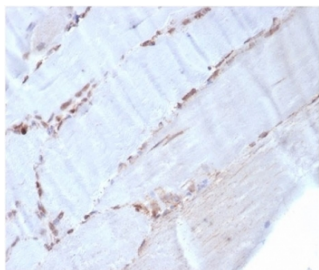
Recombinant **MOUSE MONOCLONAL**

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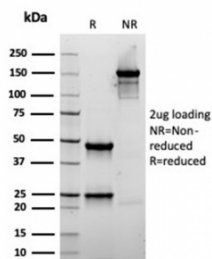
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human (broad species reactivity predicted)
<b>Format</b>	Purified
<b>Clonality</b>	Recombinant Mouse Monoclonal
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	rACTA2/1625
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P62736
<b>Localization</b>	Cytoplasm
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml
<b>Limitations</b>	This Smooth Muscle Actin antibody is available for research use only.



IHC staining of FFPE human uterus tissue with Smooth Muscle Actin (clone rACTA2/1625). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human skeletal muscle with Smooth Muscle Actin antibody (clone rACTA2/1625). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Smooth Muscle Actin antibody (rACTA2/1625) as confirmation of integrity and purity.

## Description

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.

## Application Notes

Optimal dilution of the Smooth Muscle Actin antibody should be determined by the researcher.

## Immunogen

N-Terminal decapeptide of alpha smooth muscle isoform of actin was used as the immunogen for the Smooth Muscle Actin antibody.

## Storage

Aliquot the Smooth Muscle Actin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.