

Product Datasheet

Alpha Smooth Muscle Actin Antibody (orb2639150)

Catalog Number	orb2639150
Category	Antibodies
Description	<p>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.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2a, kappa
Conjugation	Unconjugated
Reactivity	Human, Rat
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein G affinity chromatography
Immunogen	Recombinant full-length human protein was used as the immunogen for the Alpha Smooth Muscle Actin antibody.
UniProt ID	P62736
Tested applications	IF, IHC-P

Biorbyt Ltd.

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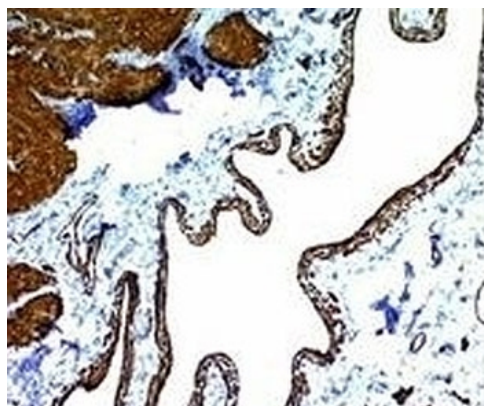
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Dilution range	Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 0.25-0.5ug/ml for 30 min at RT
Application notes	Optimal dilution of the Alpha Smooth Muscle Actin antibody should be determined by the researcher.1. Staining of formalin-fixed 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.
Antibody Type	Primary Antibody
Clone Number	ACTA2/791
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with alpha Smooth Muscle Actin antibody (clone ACTA2/791).

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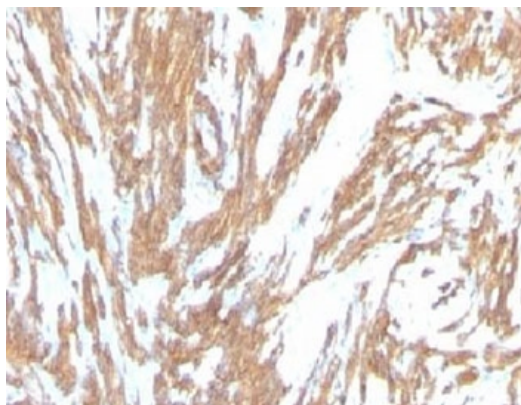
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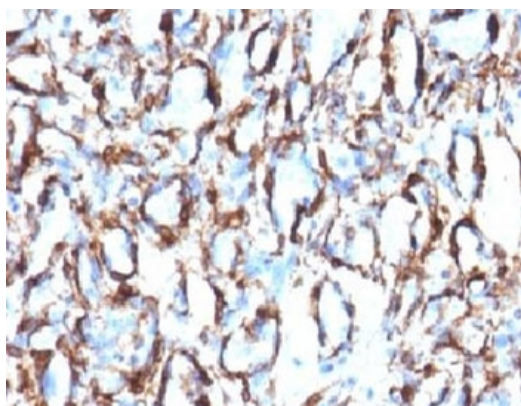
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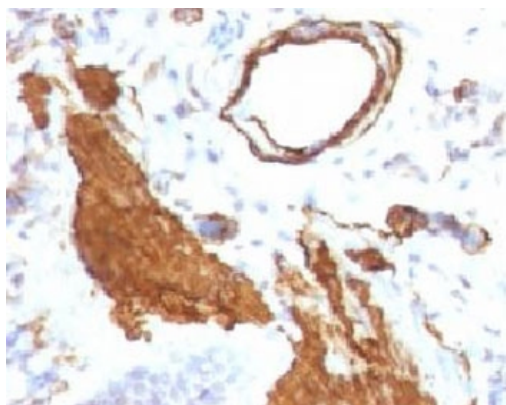
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IHC: Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with alpha Smooth Muscle Actin antibody (clone ACTA2/791).



IHC: Formalin-fixed, paraffin-embedded human angiosarcoma stained with alpha Smooth Muscle Actin antibody (clone ACTA2/791).



IHC: Formalin-fixed, paraffin-embedded rat lung stained with alpha Smooth Muscle Actin antibody (clone ACTA2/791).

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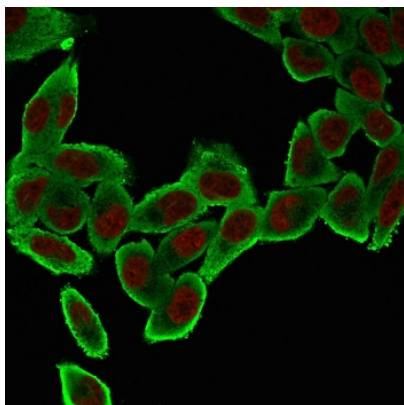
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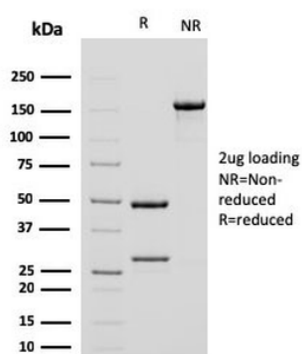
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Immunofluorescent staining of permeabilized human HeLa cells with Alpha Smooth Muscle Actin antibody (green, clone ACTA2/791) and Reddot nuclear stain (red).



SDS-PAGE analysis of purified, BSA-free Alpha Smooth Muscle Actin antibody antibody (clone ACTA2/791) as confirmation of integrity and purity.

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