

Product Datasheet

ACTA2 Antibody Cocktail / Alpha Actin (orb749772)

Catalog Number	orb749772
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	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein G affinity chromatography
Immunogen	<p>An N-terminal decapeptide of the alpha smooth muscle isoform of Actin (1A4) and recombinant full-length human protein (ACTA2/791) were used as the immunogen for the ACTA2 antibody cocktail.</p>
UniProt ID	P62736
Tested applications	IF, IHC-P

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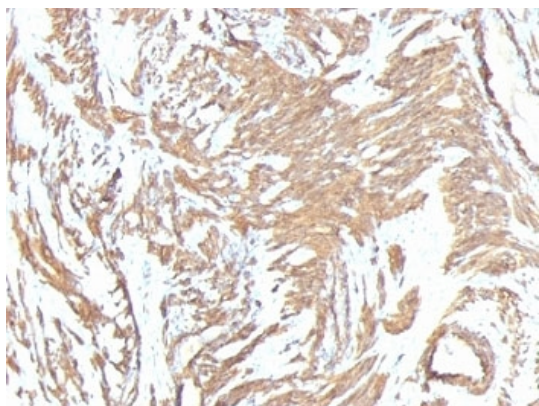
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Dilution range	Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 0.25-0.5ug/ml for 30 min at RT
Application notes	Optimal dilution of the ACTA2 antibody cocktail should be determined by the researcher. 1. Staining of formalin-fixed tissues 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	1A4 + 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 leiomyosarcoma stained with ACTA2 antibody cocktail (clone 1A4 + ACTA2/791).

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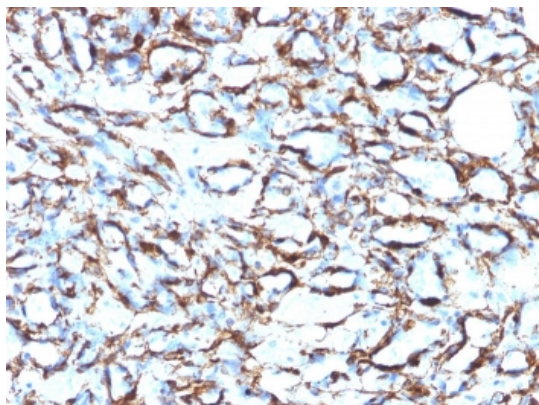
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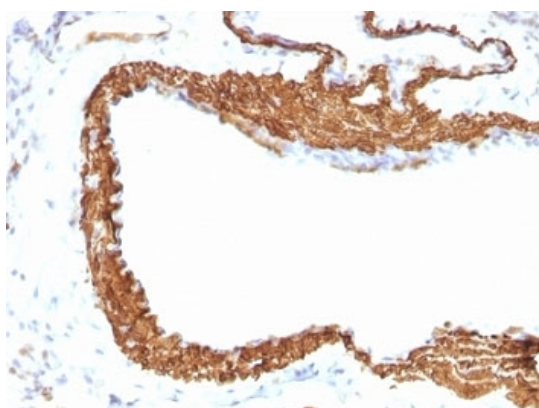
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IHC: Formalin-fixed, paraffin-embedded human angiosarcoma stained with ACTA2 antibody cocktail (clone 1A4 + ACTA2/791).



IHC: Formalin-fixed, paraffin-embedded rat lung stained with ACTA2 antibody cocktail (clone 1A4 + ACTA2/791).



IHC: Formalin-fixed, paraffin-embedded rat stomach stained with ACTA2 antibody cocktail (clone 1A4 + ACTA2/791).

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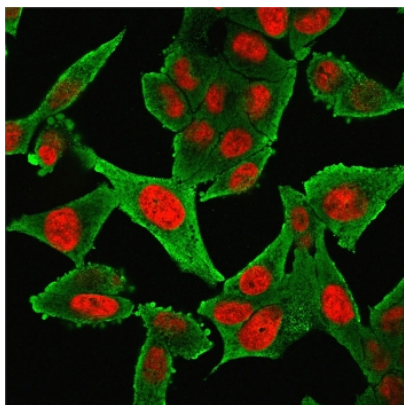
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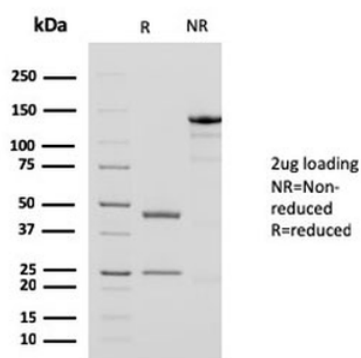
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Immunofluorescent staining of fixed human HeLa cells with ACTA2 antibody cocktail antibody (clone 1A4 + ACTA2/791, green) and NucSpot nuclear stain (red).



SDS-PAGE analysis of purified, BSA-free ACTA2 antibody cocktail antibody (clone 1A4 + ACTA2/791) as confirmation of integrity and purity.

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