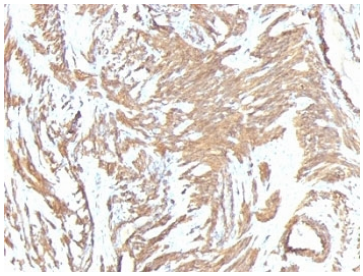
ACTA2 Antibody Cocktail / Alpha Actin [clone 1A4 + ACTA2/791] (V2838)

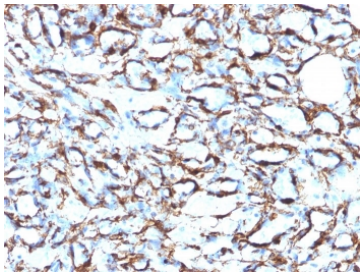
Catalog No.	Formulation	Size
V2838-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2838-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20
V2838SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100
V2838IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7

Bulk quote request

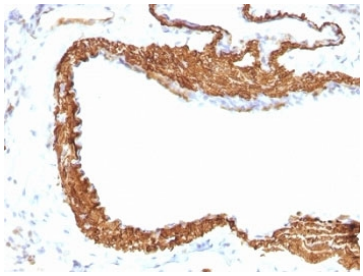
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	1A4 + ACTA2/791
Purity	Protein G affinity chromatography
UniProt	P62736
Localization	Cytoplasmic
Applications	Immunofluorescence: 1-2ug/ml Immunohistochemistry (FFPE): 0.25-0.5ug/ml for 30 min at RT
Limitations	This ACTA2 antibody cocktail is available for research use only.



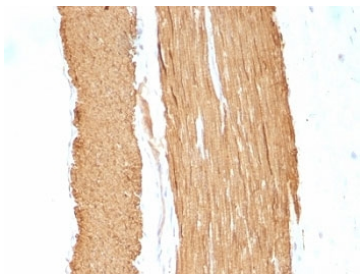
IHC: Formalin-fixed, paraffin-embedded human leiomyosarcoma stained with ACTA2 antibody cocktail (clone 1A4 + ACTA2/791).



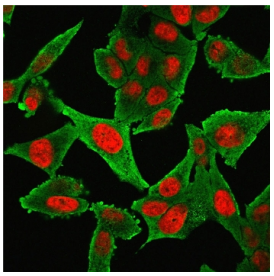
IHC: Formalin-fixed, paraffin-embedded human angiosarcoma stained with ACTA2 antibody cocktail (clone 1A4 + ACTA2/791).



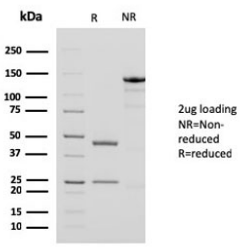
IHC: Formalin-fixed, paraffin-embedded rat lung stained with ACTA2 antibody cocktail (clone 1A4 + ACTA2/791).



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



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.

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 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.

Immunogen

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.

Storage

Store the ACTA2 antibody cocktail at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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