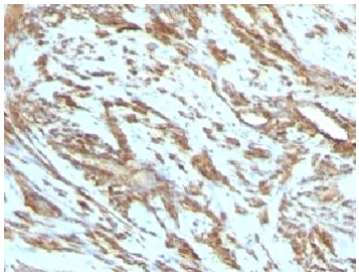
Muscle Actin Antibody (pan) [clone PMAC1-1] (V7186)

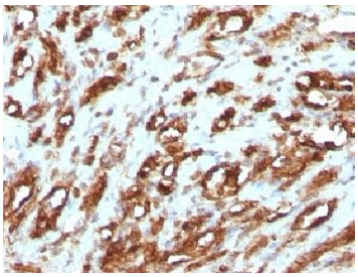
Catalog No.	Formulation	Size
V7186-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7186-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20
V7186SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100
V7186IHC-7ML	Prediluted 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
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	PMAC1-1
Purity	Protein G affinity chromatography
UniProt	P62736, P68032, P68133
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This Muscle Actin antibody is available for research use only.

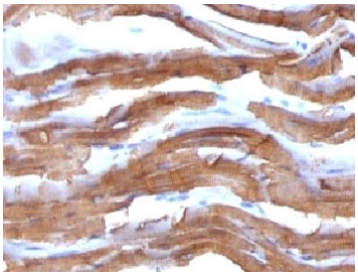


IHC testing of FFPE human leiomyosarcoma with Muscle Actin antibody. FFPE testing requires sections to be boiled in pH 9 10mM Tris with 1mM EDTA for 10-20 minutes, followed by cooling at RT for 20 minutes, prior to staining.

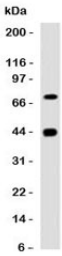


IHC testing of FFPE human rhabdomyosarcoma with Muscle Actin antibody. FFPE testing requires sections to be boiled in pH 9 10mM Tris with 1mM EDTA for 10-20 minutes, followed by cooling at RT for 20 minutes, prior to staining.

IHC testing of FFPE rat skeleton muscle with Muscle Actin antibody. FFPE testing requires sections to be boiled in pH 9 10mM Tris with 1mM EDTA for 10-20 minutes, followed by cooling at RT for 20 minutes, prior to staining.



IHC testing of FFPE rat heart with Muscle Actin antibody. FFPE testing requires sections to be boiled in pH 9 10mM Tris with 1mM EDTA for 10-20 minutes, followed by cooling at RT for 20 minutes, prior to staining.



Western blot testing of human skeletal muslce with Muscle Actin antibody. Predicted molecular weight ~42 kDa.

Description

Actin participates in many important cellular processes, including muscle contraction, cell motility, cell division and cytokinesis, vesicle and organelle movement, cell signaling, and the establishment and maintenance of cell junctions and cell shape. An actin protein's mass is roughly 42-kDa and it is the monomeric subunit of two types of filaments in cells: microfilaments, one of the three major components of the cytoskeleton, and thin filaments, part of the contractile apparatus in muscle cells. It can be present as either a free monomer called G-actin (globular) or as part of a linear polymer microfilament called F-actin (filamentous), both of which are essential for such important cellular functions as the mobility and contraction of cells during cell division. [Wiki]

This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells.

Application Notes

Titering of the Muscle Actin antibody may be required for optimal performance.

1. 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 amino acid sequence common among human muscle actins was used as the immunogen for the Muscle Actin antibody.

Storage

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

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