

Product Datasheet

SMMHC Antibody (Smooth Muscle Myosin Heavy Chain) (orb2638974)

Description	Smooth muscle myosin heavy chain (SM-MHC) is a cytoplasmic structural protein, which is a major component of the contractile apparatus in smooth muscle cells. Expression of smooth muscle myosin is developmentally regulated, appearing early in smooth muscle development, and is specific for smooth muscle development. Two isoforms of smooth muscle myosin heavy chain have been identified, designated MHC-1 and MHC-2. The antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature, which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P
Immunogen	Recombinant human protein was used as the immunogen for the SMMHC antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
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
Application notes	Optimal dilution of the SM-MHC antibody should be determined by the researcher.1. Staining of formalin/paraffin tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, 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.

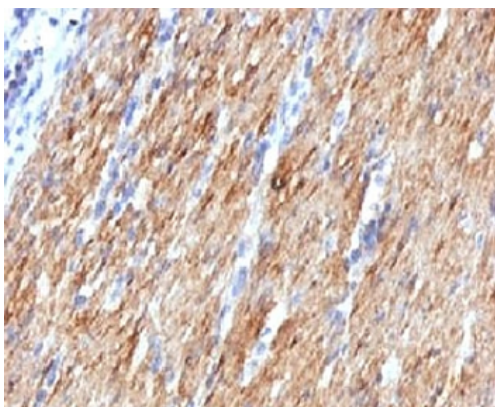
Biorbyt Ltd.

7 Signet Court, Swann's Road,
Cambridge, CB5 8LA, United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\) 1223 859-353](tel:+44201223859353) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)

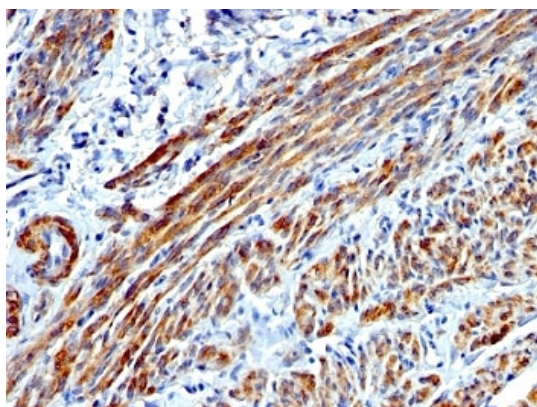
Biorbyt LLC.

68 TW Alexander Drive,
Durham, NC, 27713, United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+14159065211) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)

Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	MYH11/923
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P35749
Hazard Information	This SMMHC antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with SMMHC antibody (MYH11/923).



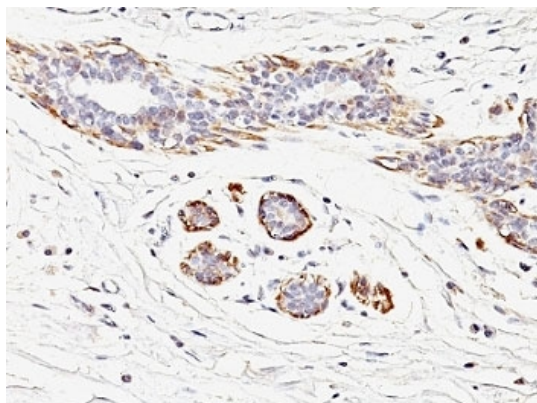
IHC: Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with SMMHC antibody (MYH11/923).

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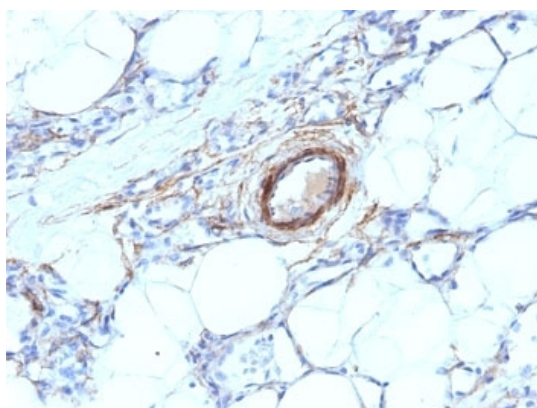
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IHC: Formalin-fixed, paraffin-embedded human breast carcinoma stained with SMMHC antibody (MYH11/923).



IHC: Formalin-fixed, paraffin-embedded human angiosarcoma stained with SMMHC antibody (MYH11/923).

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