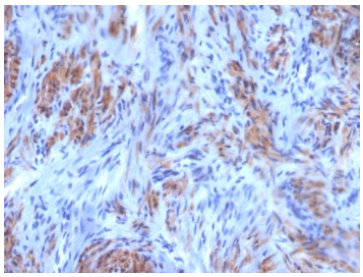
SMMHC Antibody SM-M10 / MYH11 [clone SM-M10] (V4420)

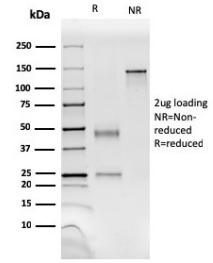
Catalog No.	Formulation	Size
V4420-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4420-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4420SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SM-M10
Purity	Protein A/G affinity
UniProt	P35749
Localization	Cytoplasm
Applications	Flow cytometry: 0.5-1ug/million cells Immunofluorescence: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This SMMHC Antibody SM-M10 is available for research use only.



SMMHC Antibody SM-M10 Uterine Smooth Muscle IHC. Immunohistochemical staining of FFPE human uterus tissue demonstrates Smooth Muscle Myosin Heavy Chain expression using SMMHC antibody clone SM-M10. SMMHC, encoded by the MYH11 gene, is a highly specific marker of differentiated smooth muscle cells and a major component of the contractile apparatus. Prominent cytoplasmic staining is observed throughout intersecting fascicles of uterine smooth muscle cells, consistent with the abundant expression of MYH11 within the myometrium. The characteristic staining pattern highlights the organized architecture of contractile smooth muscle bundles responsible for uterine function. Heat induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to staining. These results support the utility of SMMHC Antibody for studies of smooth muscle differentiation, reproductive biology, and soft tissue pathology.



SDS-PAGE analysis of purified, BSA-free SMMHC antibody (clone SM-M10) as confirmation of integrity and purity.

Description

SMMHC Antibody SM-M10 specifically detectgs Smooth muscle myosin heavy chain (SM-MHC), 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.

Visit our SMMHC Antibody page to discover additional antibodies against this Smooth Muscle Differentiation Marker, including reagents for studies of vascular biology, contractility, and smooth muscle pathology.

Application Notes

Optimal dilution of the SMMHC Antibody SM-M10 should be determined by the researcher.

Immunogen

Crude human uterus extract was used as the immunogen for the SMMHC antibody.

Storage

Aliquot the SMMHC antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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