

Mouse Smooth Muscle Myosin Heavy Chain (SM-MHC) Monoclonal Antibody | anti-MYH11 antibody

Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker) Mouse Monoclonal Antibody

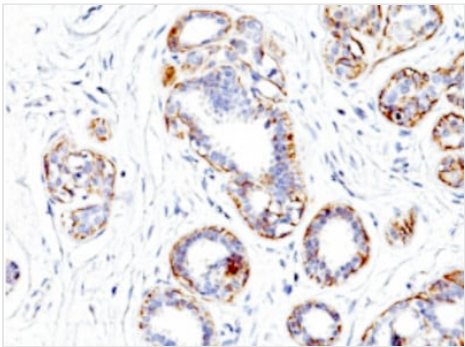
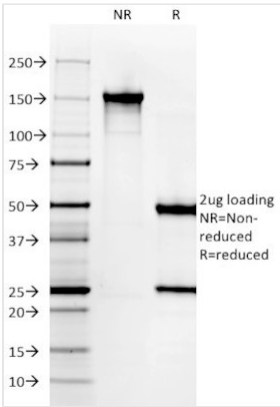
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13842	Mouse	Cat, Chicken, Cow, Dog, Guinea Pig, Human, Pig, Rabbit, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

Smooth Muscle Myosin Heavy Chain (SM-MHC); Monoclonal Antibody; Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker) Mouse Monoclonal Antibody; AAT4; Myosin heavy chain 11 (MYH11); Myosin heavy chain 11 smooth muscle; Smooth muscle myosin heavy chain 11; Myosin-11; SM1; SM2; SMHC; SMMHC; anti-MYH11 antibody

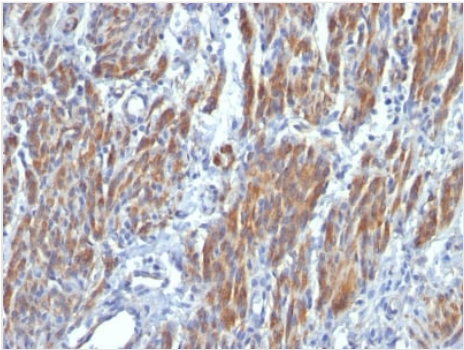
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Cat, Chicken, Cow, Dog, Guinea Pig, Human, Pig, Rabbit, Rat
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	SMMS-1
Specificity	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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	1945
Applicable Applications for anti-MYH11 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	Flow Cytometry (1-2ug/million cells) Immunofluorescence (1-2ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Cellular Localization	Melanosome
Immunogen	Human uterus extract
Research Areas	Autophagy, Cancer, Cardiovascular, Developmental Biology, Signal Transduction
Positive Control	Uterus or normal breast
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Non-hazardous. No MSDS required.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with SM-MHC Monoclonal Antibody (Clone #: SMMS-1).

SDS-PAGE
SDS-PAGE Analysis of Purified SM-MHC Monoclonal Antibody (SMMS-1). Confirmation of Integrity and Purity of Antibody



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with SM-MHC Monoclonal Antibody (Clone#: SMMS-1).

ADDITIONAL INFORMATION

References	D.Lazard, X. Sastre, M.G.Frid, M.A.Glukhova, J.-P. Thiery and V.E.Koteliensky. Expression of smooth muscle-specific proteins in myoepithelium and stromal myofibroblasts of normal and malignant human breast tissue. Proc. Natl. Acad. Sci. USA, 1993, v.90: 999-1003. N.P. Wang, B.C. Wan, M. Skelly, M.G. Frid, M.A. Glukhova, V.E. Koteliensky, A.M. Gown. Antibodies to novel myoepithelium-associated proteins distinguish benign lesions and in-situ- carcinoma from invasive carcinoma of the breast. Applied Immunohistochemistry 1997;5(3):141-151
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NCBI AND UNIPROT INFORMATION

NCBI GI #	92091583
NCBI GeneID	4629
NCBI Accession #	NP_001035202.1
NCBI GenBank Nucleotide #	NM_001040113.1
UniProt Accession #	P35749; O00396; O94944; P78422; Q3MIV8; Q3MNF0; Q3MNF1; D2JYH7
Molecular Weight	205kDa (MHC-1); 200kDa (MHC-2)
NCBI Official Full Name	myosin-11 isoform SM2B
NCBI Official Synonym Full Names	myosin heavy chain 11
NCBI Official Symbol	MYH11
NCBI Official Synonym Symbols	AAT4; FAA4; SMHC; SMMHC

NCBI Protein Information	myosin-11
UniProt Protein Name	Myosin-11
UniProt Gene Name	MYH11
UniProt Synonym Gene Names	KIAA0866
UniProt Entry Name	MYH11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/smooth-muscle-myosin-heavy-chain-sm-mhc-antibody-clone-smms-1-flow-cytometry-immunofluorescence-immunohistochemistry-elisa/13842>