

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

Smooth Muscle Myosin Heavy Chain (SM-MHC)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214460	Rabbit	Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig, Chicken. Others not known.	Immunohistochemistry

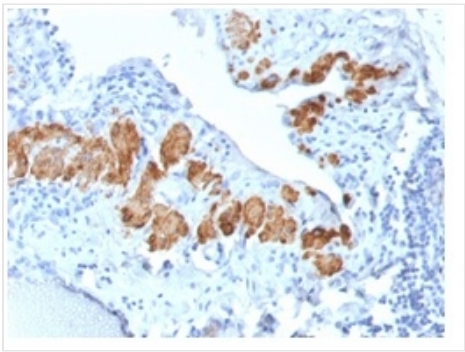
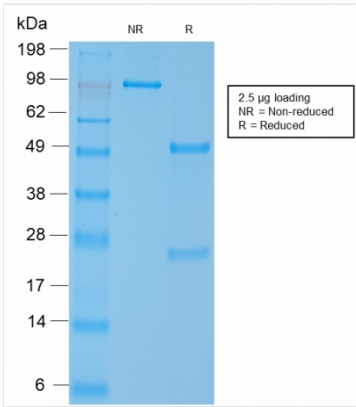
PRODUCT SYNONYMS

Smooth Muscle Myosin Heavy Chain (SM-MHC); 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-SM-MHC antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig, Chicken. Others not known.
Clonality	Monoclonal
Isotype	IgG
Clone Number	MYH11/2303R
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-SM-MHC antibody	IHC (Immunohistochemistry)
Immunogen	Human full-length recombinant MYH11 protein
Cellular Localization	Cytoplasmic
Hu-chromosome Location	16p13.11
Positive Control	Uterus or normal breast
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Human Breast tissue stained with SM-MHC Rabbit Recombinant Monoclonal Antibody (MYH11/2303R).

SDS-PAGE
SDS-PAGE Analysis of Purified SM-MHC Rabbit Recombinant Monoclonal Antibody (MYH11/2303R).

ADDITIONAL INFORMATION

References	D.Lazard, .X. Sastre, M.G.Frid, M.A.Glukhova, J.-P. Thiery and V.E.Kotliansky. 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.
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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

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.