

## 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                                                               |
|-----------|-------|--------------------------------------------------------|----------------------------------------------------------------------------|
| AAA62701  | Mouse | Human, Rat. Predicted to have broad species reactivity | Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay |

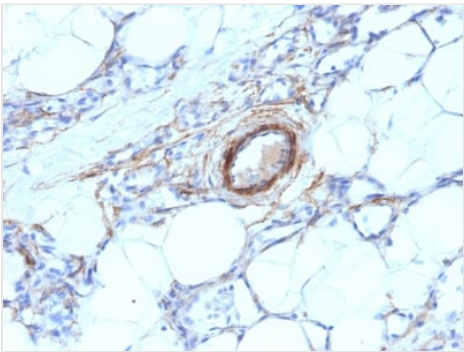
### PRODUCT SYNONYMS

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

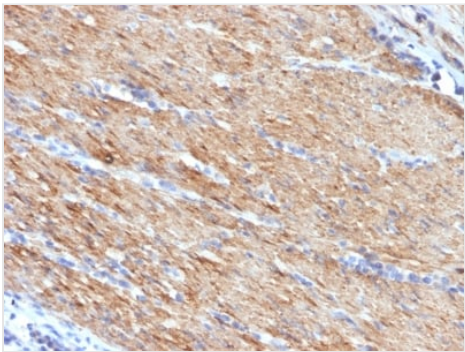
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reactivity                                      | Human, Rat.<br>Predicted to have broad species reactivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype                                         | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Clone Number                                    | MYH11/923                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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 | IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Cellular Localization                           | Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Immunogen                                       | Recombinant human MYH11 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

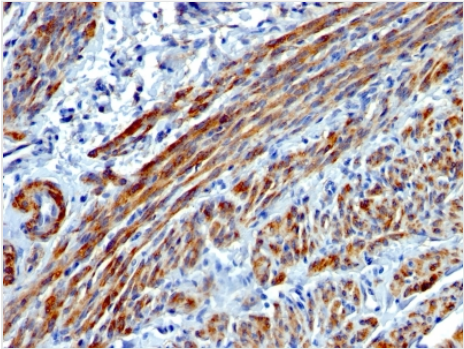
IMAGES



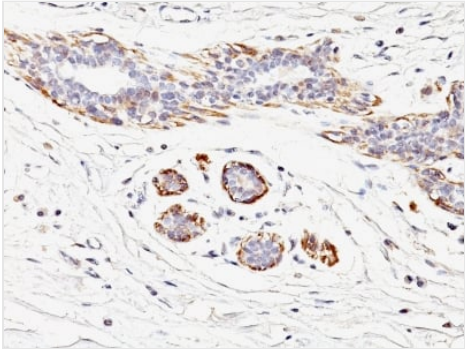
**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Angiosarcoma stained with SM-MHC Monoclonal Antibody (MYH11/923).



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with SM-MHC Monoclonal Antibody (MYH11/923).



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with SM-MHC Monoclonal Antibody (MYH11/923).



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with SM-MHC Monoclonal Antibody (MYH11/923).

ADDITIONAL INFORMATION

|            |                                                                                                                                                                                                                                                                                      |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | 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 |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/smooth-muscle-myosin-heavy-chain-sm-mhc-antibody-clone-myh11-923-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/62701>