

Smooth Muscle Myosin Heavy Chain (SM-MHC) Antibody

Mouse Monoclonal Antibody [Clone MYH11/923 + SMMS-1]

Catalog No	Format	Size
4629-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4629-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4629-MSM4-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

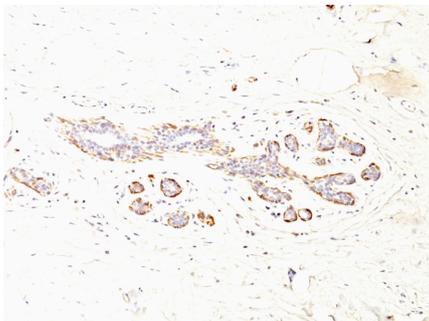
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

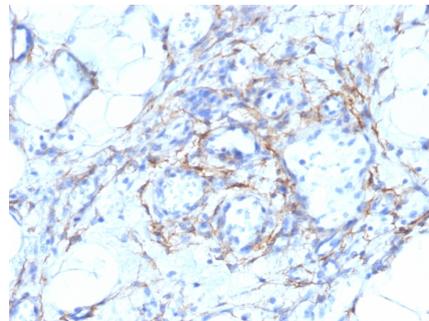
Clone	MYH11/923 + SMMS-1
Gene Name	MYH11
Immunogen	Recombinant human MYH11 protein (MYH11/923); Human uterus extract (SMMS-1)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	205kDa (MHC-1) and 200kDa (MHC-2)
Cellular Localization	Melanosome
Species Reactivity	Human, Rat
Positive Control	Uterus or normal breast.

*Optimal dilution for a specific application should be determined.

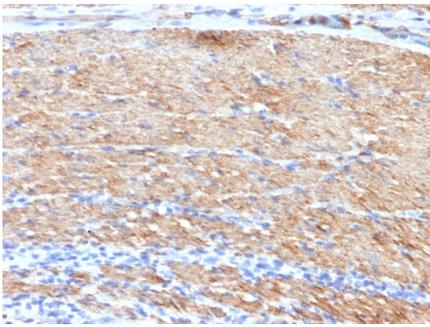
Product Images for Smooth Muscle Myosin Heavy Chain (SM-MHC) Antibody



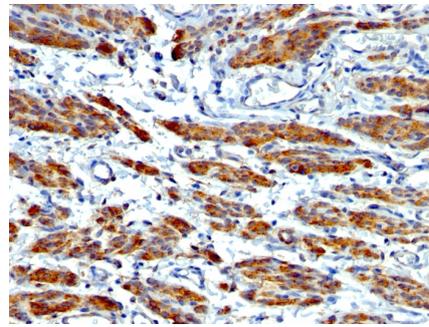
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with SM-MHC Monoclonal Antibody (MYH11/923 + SMMS-1).



Formalin-fixed, paraffin-embedded human Angiosarcoma stained with SM-MHC Monoclonal Antibody (MYH11/923 + SMMS-1).



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with SM-MHC MAb (MYH11/923 + SMMS-1).



Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with SM-MHC Monoclonal Antibody (MYH11/923 + SMMS-1).

Specificity & Comments

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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

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.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Autophagy, Cancer, Cardiovascular, Developmental Biology, Signal Transduction