

Anti-Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker) MYH11 Monoclonal Antibody

Catalog Number: M02422

About MYH11

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.

Overview

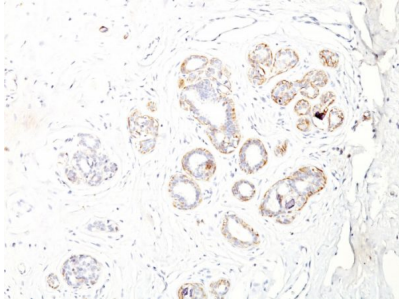
Product Name	Anti-Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker) MYH11 Monoclonal Antibody
Reactive Species	Chicken, Cow, Dog, Guinea pig, Human, Pig, Rabbit, Rat, Cat
Description	Boster Bio Anti-Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker) MYH11 Monoclonal Antibody (Catalog # M02422). Tested in Flow Cytometry, IF, IHC applications. This antibody reacts with Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig, Chicken.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC
Clonality	Monoclonal Clone: ID8
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	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.
Host	Mouse
Uniprot ID	P35749

Technical Details

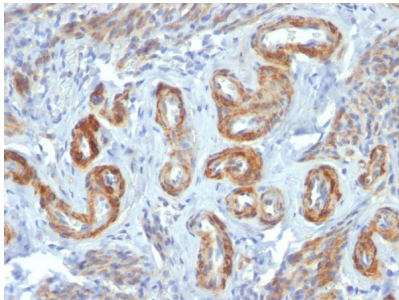
Immunogen	Human uterus extract
Predicted Reactive Species	Pig, Rabbit
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa

Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>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&degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

Anti-Smooth Muscle Myosin Heavy Chain (SM-MHC) (Leiomyosarcoma & Myoepithelial Cell Marker) MYH11 Monoclonal Antibody (M02422) Images



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Anti-SM-MHC Monoclonal Antibody (ID8).



Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Anti-SM-MHC Monoclonal Antibody (ID8).

4 Publications Citing This Product

1. PubMed ID: 10.1002/jbm.a.36144, The penetration and phenotype modulation of smooth muscle cells on surface heparin modified poly(ϵ -caprolactone) vascular scaffold
2. PubMed ID: 20593513, All-trans retinoic acid promotes smooth muscle cell differentiation of rabbit bone marrow-derived mesenchymal stem cells
3. PubMed ID: 28643432, Cao, J., Geng, X., Wen, J., Li, Q., Ye, L., Zhang, A.,..., & Gu, Y. (2017). The penetration and phenotype modulation of smooth muscle cells on surface heparin modified poly(ϵ -caprolactone) vascular scaffold. Journal of Biomedical Materials Research....

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