

# Product Datasheet

## Myosin heavy chain 11 Antibody (MYH11/923) NBP2-44533-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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Updated 10/23/2024 v.20.1

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**NBP2-44533-0.1mg**

Myosin heavy chain 11 Antibody (MYH11/923)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	MYH11/923
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

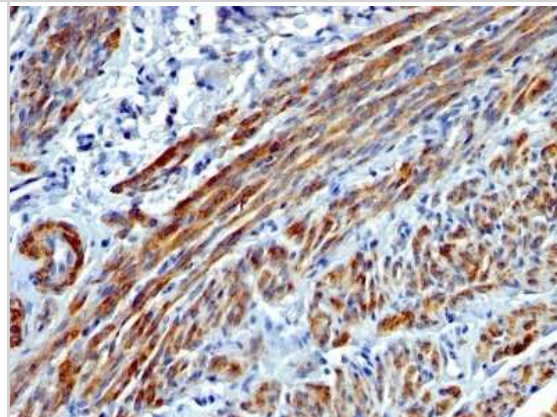
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-47900)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	4629
Gene Symbol	MYH11
Species	Human, Rat
Reactivity Notes	Predicted to have broad species reactivity.
Marker	Leiomyosarcoma & Myoepithelial Cell Marker
Specificity/Sensitivity	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.
Immunogen	Recombinant full-length human Myosin heavy chain 11 protein (Uniprot: P35749)

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunofluorescence
Recommended Dilutions	Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunofluorescence 0.5 - 1.0 ug/ml
Application Notes	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 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

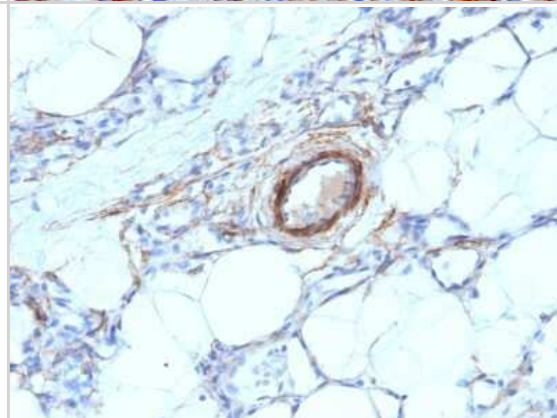


## Images

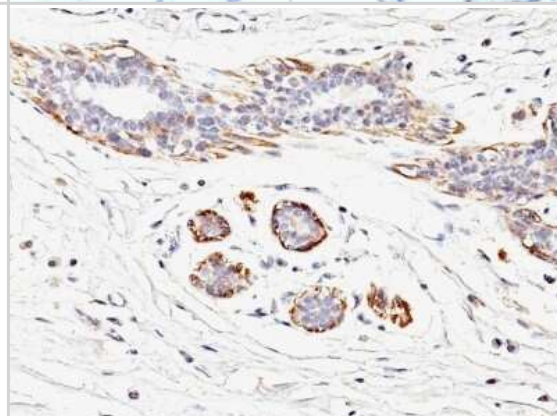
Immunohistochemistry-Paraffin: Myosin heavy chain 11 Antibody (MYH11/923) [NBP2-44533] - Human Leiomyosarcoma stained with SM-MHC Monoclonal Antibody (MYH11/923).



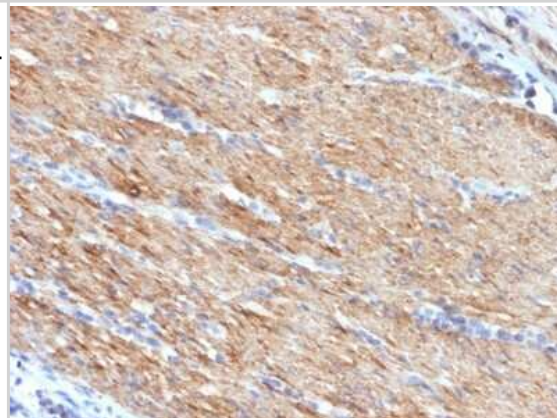
Immunohistochemistry-Paraffin: Myosin heavy chain 11 Antibody (MYH11/923) [NBP2-44533] - Human Angiosarcoma stained with SM-MHC Monoclonal Antibody (MYH11/923).



Immunohistochemistry-Paraffin: Myosin heavy chain 11 Antibody (MYH11/923) [NBP2-44533] - Human Breast Carcinoma stained with SM-MHC Monoclonal Antibody (MYH11/923).



Immunohistochemistry-Paraffin: Myosin heavy chain 11 Antibody (MYH11/923) [NBP2-44533] - Human Colon Carcinoma stained with SM-MHC Monoclonal Antibody (MYH11/923).



## Publications

Applewhite BC Controlled Periadventitial Delivery of  $\alpha$ -Aminopropionitrile to Promote Arteriovenous Fistula Maturation Thesis 2023-01-01 (Immunohistochemistry)

Salemi S, Schori L, Gerwinn T et al. Myostatin Overexpression and Smad Pathway in Detrusor Derived from Pediatric Patients with End-Stage Lower Urinary Tract Dysfunction International Journal of Molecular Sciences 2023-02-24 [PMID: 36901894]

Kapur RP Histopathological, Ultrastructural, and Immunohistochemical Findings in MYH11-Variant Visceral Myopathy Pediatric and developmental pathology : the official journal of the Society for Pediatric Pathology and the Paediatric Pathology Society 2022-12-26 [PMID: 36571289]





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### **Products Related to NBP2-44533-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-87025PEP	Myosin heavy chain 11 Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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