

Product Datasheet

Recombinant SMMHC Antibody / Smooth Muscle Myosin Heavy Chain (orb2634971)

Catalog Number	orb2634971
Description	Smooth Muscle Myosin, heavy chain (SMM-HC) is a cytoplasmic structural protein that is a major component of the contractile apparatus of the smooth muscle cells. Expression of smooth muscle myosin is developmentally regulated, appearing early and is specific for smooth muscle development. SM-MHC stains the intact myoepithelial cell (MEC) layers present in benign and in situ malignant breast and bronchioloalveolar lesions and is therefore very helpful in distinguishing between benign and malignant tumors. The antibody reacts with smooth muscle cells and myoepithelial cells, but not with myofibroblasts. It is very helpful in distinguishing between benign sclerosing breast lesions and infiltrating carcinomas in difficult cases since it strongly stains the myoepithelial layer in the benign lesions while it is negative in the infiltrating carcinomas.
Species/Host	Rabbit
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P
Immunogen	A portion of amino acids 1-100 of Myosin protein was used as the immunogen for the recombinant SMMHC antibody.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the recombinant SMMHC antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide

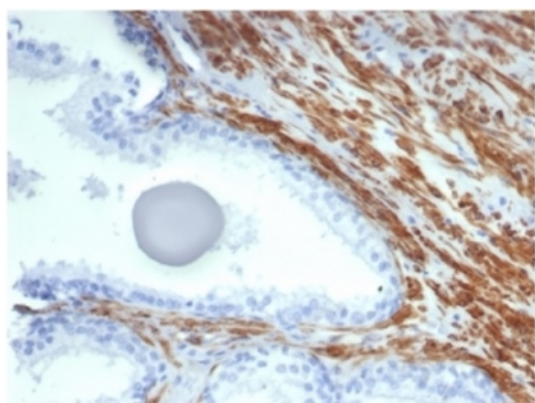
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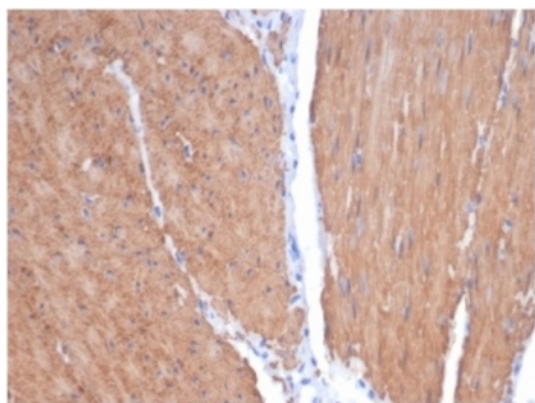
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Isotype	Rabbit IgG, kappa
Clonality	Recombinant
Clone Number	MYH11/7087R
Antibody Type	Primary Antibody
Uniprot ID	P35749
Hazard Information	This recombinant SMMHC antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human prostate tissue with recombinant SMMHC antibody (clone MYH11/7087R). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



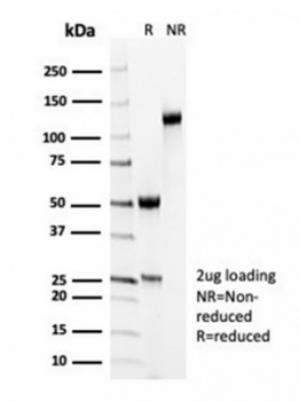
IHC staining of FFPE human smooth muscle tissue with recombinant SMMHC antibody (clone MYH11/7087R). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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SDS-PAGE analysis of purified, BSA-free recombinant SMMHC antibody (clone MYH11/7087R) as confirmation of integrity and purity.

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