

SMMHC Recombinant monoclonal antibody

Catalog Number: 86654-3-RR

Basic Information

Catalog Number: 86654-3-RR	GenBank Accession Number: BC104906	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4629	CloneNo.: 251604H2
Isotype: IgG	UNIPROT ID: P35749	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:2000-1:8000
Immunogen Catalog Number: AG16114	Full Name: myosin, heavy chain 11, smooth muscle	
	Calculated MW: 1979 aa, 228 kDa	
	Observed MW: 227-250 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : mouse heart tissue, IHC : human colon tissue, human breast cancer tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

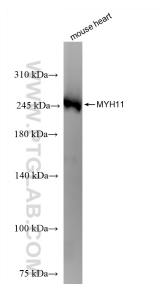
Background Information

SMMHC (smooth muscle myosin heavy chain; MYH11) is a contractile protein of smooth muscle cells. It is specifically expressed in cells derived from smooth muscle lineages. SMMHC is used as vascular smooth muscle cell (vSMC) contractile marker. It is also an excellent marker for myoepithelial cells, with no or few cross-reaction with myofibroblasts, thus very useful in the evaluation of stromal invasion.

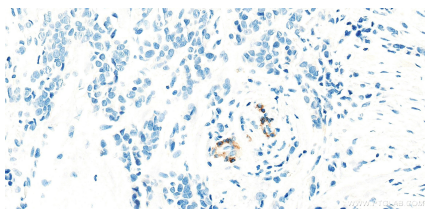
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

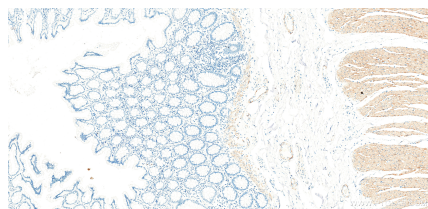
Selected Validation Data



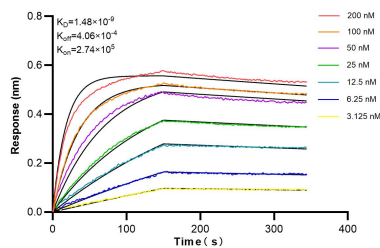
mouse heart tissue were subjected to SDS PAGE followed by western blot with 86654-3-RR (MYH11 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 86654-3-RR (SMMHC antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 86654-3-RR (SMMHC antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 86654-3-RR against Human SMMHC were performed. The affinity constant is 1.48 nM.