

For Research Use Only

MYL12B Polyclonal antibody

Catalog Number: 10324-1-AP **5 Publications**



Basic Information

Catalog Number: 10324-1-AP	GenBank Accession Number: BC004994	Purification Method: Antigen affinity purification
Size: 650 µg/ml	GeneID (NCBI): 103910	Recommended Dilutions: WB 1:500-1:3000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: O14950	
Isotype: IgG	Full Name: myosin, light chain 12B, regulatory	
Immunogen Catalog Number: AG0398	Calculated MW: 20 kDa	
	Observed MW: 18-20 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse skeletal muscle tissue, mouse heart tissue, rat skeletal muscle tissues IHC : human colon cancer tissue,
Cited Applications: WB, IF	
Species Specificity: human, mouse, rat	
Cited Species: human	
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

MYL12B is a regulatory subunit of myosin and plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. There are two groups of residues on the MYL12B that are phosphorylated by distinct kinases and have contrasting effects on myosin II biophysical properties. Phosphorylation at Thr18/Ser19 essentially "activates" the myosin molecule to produce force. The second group of phosphorylated residues is at the N-terminus of the MYL12B at Ser1, Ser2 and Thr9 and causes inhibitory effect on myosin activity. (PMID: 22136066)

Notable Publications

Author	Pubmed ID	Journal	Application
Asker Y Khapchaev	27699916	J Pept Sci	WB
Beach Jordan R JR	22136066	BMC Cell Biol	WB,IF
Asker Y Khapchaev	37758312	Biochemistry (Mosc)	WB

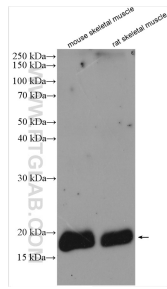
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

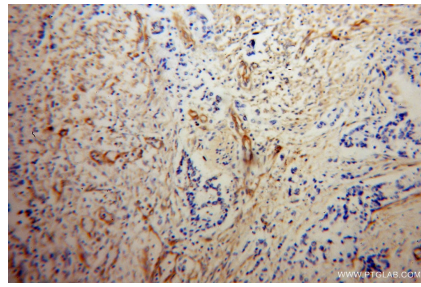
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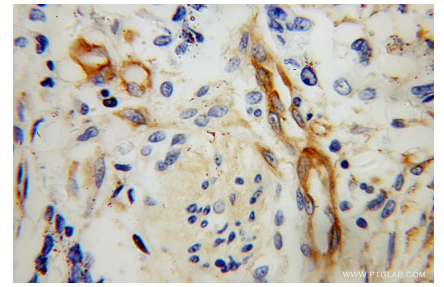
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10324-1-AP (MYL12B antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 10324-1-AP (MYL12B antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 10324-1-AP (MYL12B antibody) at dilution of 1:100 (under 40x lens).