For Research Use Only

MYL12B Polyclonal antibody

Catalog Number: 10324-1-AP 6 Publications



Basic Information

Catalog Number: GenBank Accession Number:

10324-1-AP BC004994 GeneID (NCBI): Size: 150ul, Concentration: 650 ug/ml by 103910

Nanodrop and 327 ug/ml by Bradford $\,$ UNIPROT ID: method using BSA as the standard; Source:

Rabbit myosin, light chain 12B, regulatory

014950

Full Name:

Isotype Calculated MW: 20 kDa Immunogen Catalog Number: Observed MW: AG0398 18-20 kDa

Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500

Applications

Tested Applications: WB, IHC, ELISA

Cited Applications:

WB. IF

Species Specificity: human, mouse, rat Cited Species: human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse skeletal muscle tissue, mouse heart tissue,

rat skeletal muscle tissues

IHC: human colon tissue, human colon cancer tissue

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 $phosphory lated \ by \ distinct \ kinases \ and \ have \ contrasting \ effects \ on \ myosin \ II \ biophysical$ $properties. Phosphorylation\ at\ Thr 18/Ser 19\ essentially\ "activates"\ the\ myosin\ molecule\ to\ produce\ force.\ The$ 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
Shuai Tang	39578737	BMC Microbiol	

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

*** 20ul sizes contain 0.1% BSA

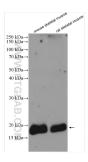
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

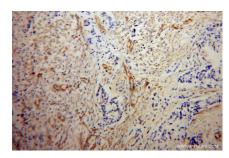
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

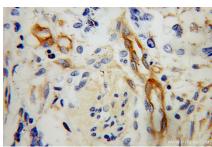
Selected Validation Data



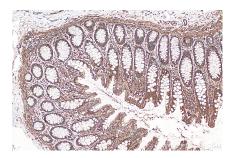
Various lysates were subjected to SDS PAGE followed by western blot with 10324-1-AP (MYL12B antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



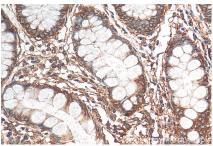
Immunohistochemical analysis of paraffinembedded human colon cancer using 10324-1-AP (MYL12B antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical analysis of paraffinembedded human colon cancer using 10324-1-AP (MYL12B antibody) at dilution of 1:100 (under 40x lans)



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 10324-1-AP (MYL12B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 10324-1-AP (MYL12B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).