

MYL12B Polyclonal Antibody

Catalog number: 10324-1-AP

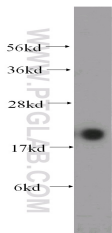
Size: 49 µg/150 µl

Source: Rabbit

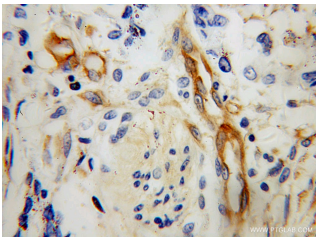
Isotype: IgG

Synonyms:

MYL12B; MLC-B; MRLC2



mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 10324-1-AP(MYL12B Antibody) at dilution of 1:1000



Immunohistochemistry of paraffin-embedded human colon cancer using 10324-1-AP(MYL12B Antibody) at Dilution 1:100 (under 40x lens)

Background

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.(22136066)

Applications

Tested applications:	ELISA, WB, IHC
Cited applications:	IF, WB
Species specificity:	Human, mouse, rat; other species not tested.
Cited species:	Human
Positive WB detected in:	Mouse skeletal muscle tissue, mouse heart tissue
Calculated MYL12B MW:	20kd
Observed MYL12B MW:	20kd
Positive IHC detected in:	Human colon cancer
Recommended dilution:	WB: 1:500-1:5000 IHC: 1:50-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation, FC = Flow cytometry

Immunogen information

Immunogen:	Ag0398
GenBank accession number:	BC004994
Gene ID (NCBI):	103910
Full name:	Myosin, light chain 12B, regulatory

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.