

For Research Use Only

MYLK2 Polyclonal antibody

Catalog Number: 21173-1-AP **2 Publications**



Basic Information

Catalog Number: 21173-1-AP	GenBank Accession Number: BC069627	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 407 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 85366	Recommended Dilutions: WB 1:2000-1:12000 IHC 1:50-1:500
Source: Rabbit	Full Name: myosin light chain kinase 2	
Isotype: IgG	Calculated MW: 596 aa, 65 kDa	
Immunogen Catalog Number: AG15424	Observed MW: 65 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse skeletal muscle tissue, human skeletal muscle tissue, Jurkat cells, A549 cells, rat skeletal muscle tissue IHC : mouse skeletal muscle tissue,
Cited Applications: WB	
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

MYLK2, also named as MLCK2, belongs to the protein kinase superfamily and CAMK Ser/Thr protein kinase family. MYLK2 catalyze the reaction: ATP + [myosin light-chain] = ADP + [myosin light-chain] phosphate. MYLK2 is implicated in the level of global muscle contraction and cardiac function. MYLK2 phosphorylates a specific serine in the N-terminus of a myosin light chain. Mutation of MYLK2 will cause the cardiomyopathy familial hypertrophic (CMH).

Notable Publications

Author	Pubmed ID	Journal	Application
Xueying Li	36287004	Microbiol Spectr	WB
Anteneh Getachew	34113824	iScience	WB

Storage

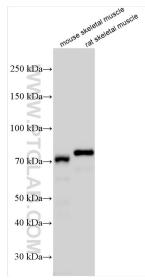
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

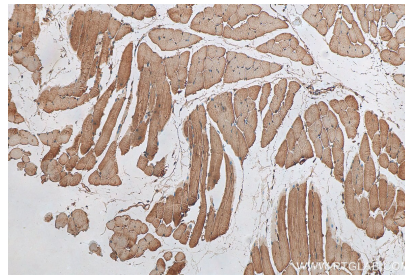
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

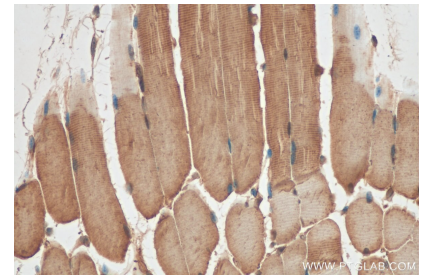
Selected Validation Data



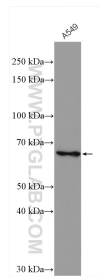
Various lysates were subjected to SDS PAGE followed by western blot with 21173-1-AP (MYLK2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 21173-1-AP (MYLK2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 21173-1-AP (MYLK2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



A549 cells were subjected to SDS PAGE followed by western blot with 21173-1-AP (MYLK2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.