

For Research Use Only

MYLK2 Polyclonal antibody

Catalog Number: 21173-1-AP

2 Publications



Basic Information

Catalog Number:

21173-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 407 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15424

GenBank Accession Number:

BC069627

GeneID (NCBI):

85366

UNIPROT ID:

Q9H1R3

Full Name:

myosin light chain kinase 2

Calculated MW:

596 aa, 65 kDa

Observed MW:

65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:12000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

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

Positive Controls:

WB : mouse skeletal muscle tissue, human skeletal muscle tissue, Jurkat cells, A549 cells, rat skeletal muscle tissue

IHC : mouse skeletal muscle tissue,

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

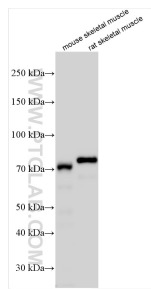
For technical support and original validation data for this product please contact:

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

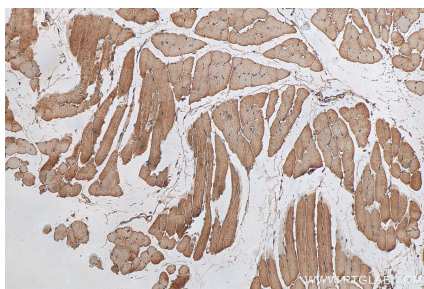
E: proteintech@ptglab.com
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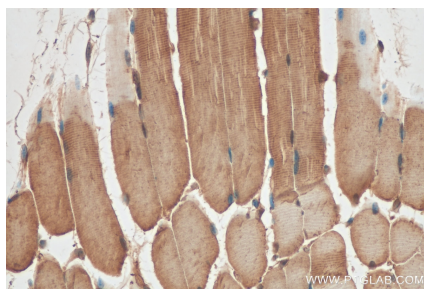
Selected Validation Data



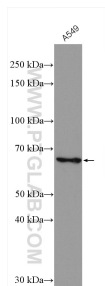
Various lysates were subjected to SDS PAGE followed by western blot with 21173-1-AP (MYLK2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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.