

# MYLK2 Polyclonal antibody

Catalog Number: 21173-1-AP

2 Publications

## Basic Information

## Catalog Number:

21173-1-AP

## Size:

800 µg/ml

## 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:

IHC, WB, 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

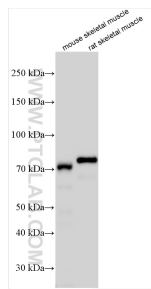
For technical support and original validation data for this product please contact:

T: 4006900926

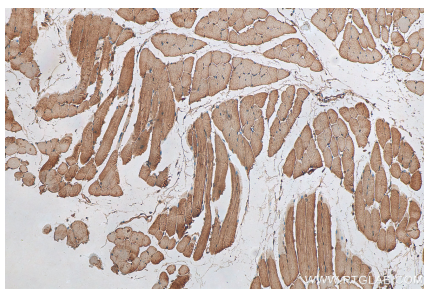
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

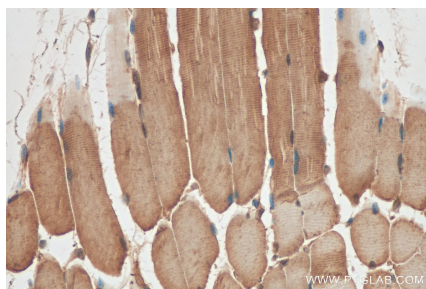
## Selected Validation Data



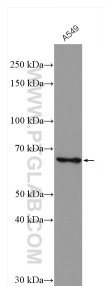
Various lysates were subjected to SDS PAGE followed by western blot with 21173-1-AP (MYLK2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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.