

For Research Use Only

Myosin Light Chain 2/MLC-2V Polyclonal antibody



Catalog Number: 55462-1-AP **3 Publications**

Basic Information

Catalog Number:

55462-1-AP

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000432

GeneID (NCBI):

4633

UNIPROT ID:

P10916

Full Name:

myosin, light chain 2, regulatory,
cardiac, slow

Calculated MW:

19 kDa

Observed MW:

18-20 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:20000

IP 0.5-4.0 µg for 1.0-3.0 mg of total
protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

FC, IHC, IP, WB, 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 : rat heart tissue,

IP : mouse brain tissue,

IHC : human heart tissue, human skeletal muscle
tissue

Background Information

MYL2, also named as MLC-2v and MLC-2, is ventricular/cardiac muscle isoform. Defects in MYL2 are the cause of cardiomyopathy familial hypertrophic type 10 (CMH10). Defects in MYL2 are the cause of cardiomyopathy familial hypertrophic with mid-left ventricular chamber type 2 (MVC2). MYL2 has been widely used as a marker of mature ventricular cardiomyocytes.

Notable Publications

Author	Pubmed ID	Journal	Application
Chao Ci	30431060	Int J Mol Med	WB
Kiwon Ban	26651608	Stem Cell Reports	IF
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:

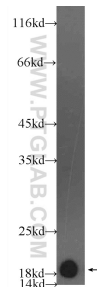
T: 4006900926

E: Proteintech-CN@ptglab.com

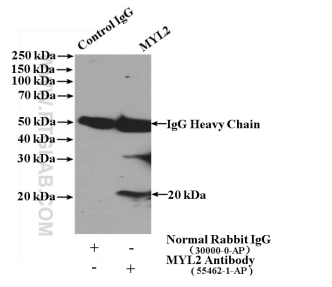
W: ptgcn.com

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

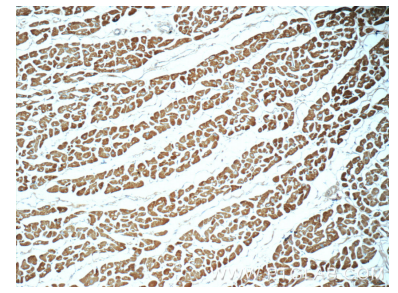
Selected Validation Data



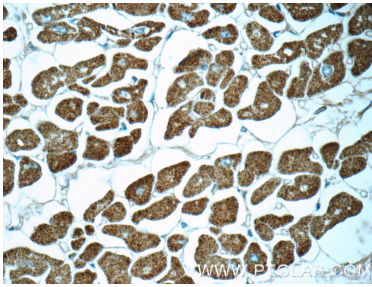
rat heart tissue were subjected to SDS PAGE followed by western blot with 55462-1-AP (MYL2 Antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



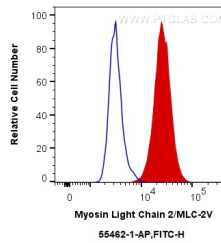
IP result of anti-Myosin Light Chain 2/MLC-2V (IP:55462-1-AP, 4ug; Detection:55462-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 55462-1-AP (MYL2 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 55462-1-AP (MYL2 Antibody) at dilution of 1:50 (under 40x lens).



1X10⁶ C2C12 cells were intracellularly stained with 0.4 ug Anti-Human Myosin Light Chain 2/MLC-2V (55462-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).