

For Research Use Only

# Myosin Light Chain 2 Polyclonal ANTIBODY



Catalog Number: 10906-1-AP **92 Publications**

## Basic Information

<b>Catalog Number:</b> 10906-1-AP	<b>GenBank Accession Number:</b> BC015821	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB IHC 1:50-1:500 IF 1:50-1:500
<b>Size:</b> mg/ml	<b>GeneID (NCBI):</b> 4633	
<b>Source:</b> Rabbit	<b>Full Name:</b> myosin, light chain 2, regulatory, cardiac, slow	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 19 kDa	
<b>Purification Method:</b> Antigen affinity purification	<b>Observed MW:</b> 19 kDa	
<b>Immunogen Catalog Number:</b> AG1356		

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : mouse heart tissue; rat heart tissue IP : mouse heart tissue; IHC : human heart tissue; IF : mouse heart tissue;
<b>Cited Applications:</b> FC, IF, IHC, WB	
<b>Species Specificity:</b> human,mouse,rat,zebrafish	
<b>Cited Species:</b> human, monkey, mouse, rat, zebrafish	

## 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
Bin Li	28962583	Stem Cell Res Ther	IF
A Gaignerie	30254308	Sci Rep	IF
Yukihiro Saito	26384234	PLoS One	IF

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS,pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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)

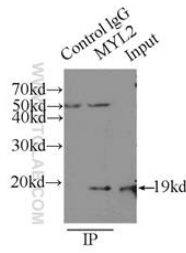
E: proteintech@ptglab.com  
W: ptglab.com

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

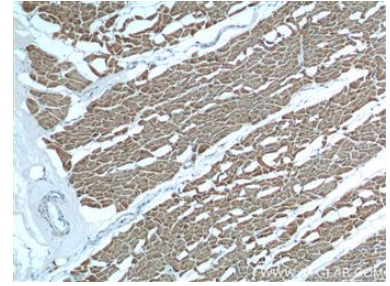
## Selected Validation Data



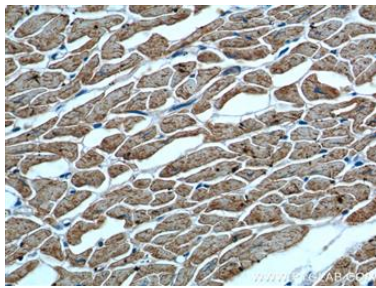
mouse heart tissue were subjected to SDS PAGE followed by western blot with 10906-1-AP(Myosin Light Chain 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



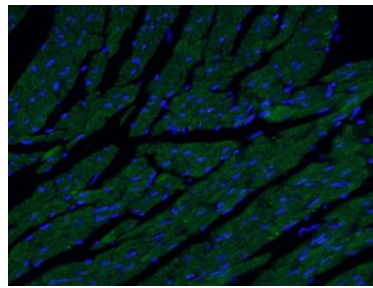
IP Result of anti-Myosin Light Chain 2 (IP:10906-1-AP, 3ug; Detection:10906-1-AP 1:500) with mouse heart tissue lysate 6000ug.



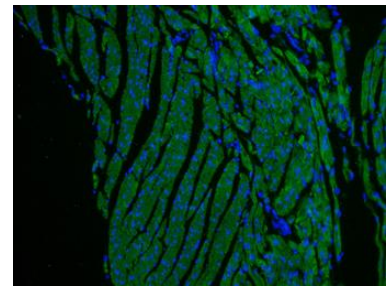
Immunohistochemistry of paraffin-embedded human heart tissue slide using 10906-1-AP( Myosin Light Chain 2 antibody at dilution of 1:200 (under 10x lens)



Immunohistochemistry of paraffin-embedded human heart tissue slide using 10906-1-AP( Myosin Light Chain 2 antibody at dilution of 1:200 (under 40x lens)



Immunofluorescent analysis of ( 4% PFA ) fixed mouse heart tissue using 10906-1-AP(Myosin Light Chain 2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunofluorescent analysis of ( 4% PFA ) fixed mouse heart tissue using 10906-1-AP(Myosin Light Chain 2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)