For Research Use Only

Myosin Light Chain 2/MLC-2V Polyclonal antibody



Catalog Number: 10906-1-AP

194 Publications

Basic Information

Catalog Number: GenBank Accession Number: 10906-1-AP BC015821
Size: GeneID (NCBI): 300 µg/ml 4633
Source: UNIPROT ID: Rabbit P10916
Isotype: Full Name:

IgG myosin, light chain 2, regulatory, cardiac, slow

AG1356 Calculated MW: 19 kDa

Observed MW: 19 kDa

Positive Controls:

WB: mouse heart tissue, rat heart tissue

IP: mouse heart tissue,

IHC: mouse heart tissue, human heart tissue, rat heart

Purification Method:

WB 1:2000-1:16000

protein lysate

IF 1:50-1:500

IHC 1:400-1:1600

Antigen affinity purification

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

tissue

IF: mouse heart tissue,

Applications

Tested Applications: FC, IF-P, IHC, IP, WB, ELISA Cited Applications:

FC, IF, IHC, WB

Species Specificity:
human, mouse, rat, zebrafish

Cited Species:

human, rat, mouse, monkey, zebrafish, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

buffer pH 6.0

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. There are four genes of myosin light chain 2 (MLC2): MYL2 (MLC2v), MYL5, MYL7 (MLC2a) and MYL9 (MLC2c). While usually myosin light chain 2 is referred to MYL2.

Notable Publications

Author	Pubmed ID	Journal	Application
Arvin H Soepriatna	34777603	Cell Mol Bioeng	IF
Bin Li	28962583	Stem Cell Res Ther	IF
A Gaignerie	30254308	Sci Rep	IF

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

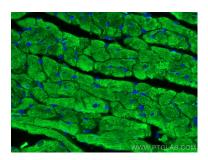
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

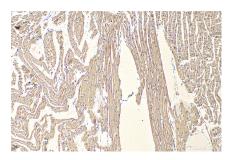
W: ptgcn.cor

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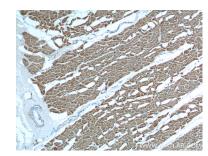
Selected Validation Data



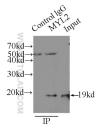
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Myosin Light Chain 2/MLC-2V antibody (10906-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



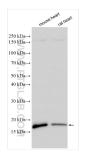
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



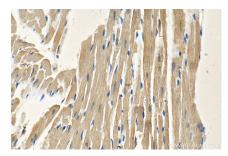
Immunohistochemical analysis of paraffinembedded human heart tissue slide using 10906-1-AP (Myosin Light Chain 2 antibody at dilution of 1:200 (under 10x lens).



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



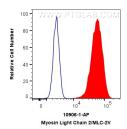
Various lysates were subjected to SDS PAGE followed by western blot with 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded rat heart tissue slide using 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 C2C12 cells were intracellularly stained with 0.4 ug Anti-Human Myosin Light Chain 2/MLC-2V (10906-1-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).