Myosin Light Chain 2/MLC-2V Polyclonal antibody

Catalog Number: 10906-1-AP

Basic Information

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

**Size:** 150UL. Concentration: 330 μg/ml by Nanodrop and 220 μg/ml by Bradford method using BSA as the standard.

**Source:** Rabbit

**Isotype:** IgG

**Immunogen Catalog Number:** AG1356

**GenBank Accession Number:** BC015821

**GeneID (NCBI):** 4633

**Full Name:** myosin, light chain 2, regulatory, cardiac, slow

**Calculated MW:** 19 kDa

**Observed MW:** 19 kDa

**Purification Method:** Antigen affinity purification

**Recommended Dilutions:**

- **WB:** 1:1000-1:4000
- **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

Applications

**Tested Applications:** IF, IHC, IP, WB, ELISA

**Cited Applications:** FC, IF, IHC, WB

**Species Specificity:** human, mouse, rat, zebrafish

**Cited Species:** human, monkey, mouse, rat, zebrafish

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

Background Information

MYL2, also named as MLC-2v and MLC-2, is ventricular/cardiacc 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

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<th>Author</th>
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<tr>
<td>Bin Li</td>
<td>28962583</td>
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<td>A Gaignerie</td>
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<td>Yukihiro Saito</td>
<td>26384234</td>
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Storage

**Storage:** Store at -20°C. Stable for one year after shipment.

**Storage Buffer:** PBS with 0.1% 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: 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.
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 1:2000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

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