

Recombinant Myosin Light Chain 3 Monoclonal Antibody

catalog number: AN301607L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human; Rat; Mouse

Immunogen Recombinant human Myosin Light Chain 3 fragment

 Host
 Rabbit

 Isotype
 IgG, κ

 Clone
 A310

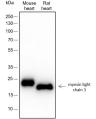
Purification Protein Apurified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

WB 1:500-1:2000 IHC 1:200-1:1000 FCM 1:50-1:100

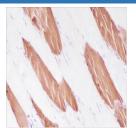
Data



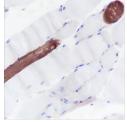
Western Blot with Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:2000. Lane 1: Mouse heart, Lane 2:

Rat heart
Observed-MW:22 kDa
Calculated-MW:22 kDa



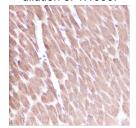


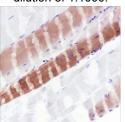
Immunohistochemistry of paraffin-embedded Human skeletal muscle using Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Mouse cardiac Immunohistochemistry of paraffin-embedded Mouse skeletal muscle using Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:1000.

Immunohistochemistry of paraffin-embedded Mouse skeletal muscle using Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:1000.





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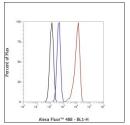
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Immunohistochemistry of paraffin-embedded Rat cardiac muscle using Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:1000.

Immunohistochemistry of paraffin-embedded Rat skeletal muscle using Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:1000.



Flow cytometric analysis of human Myosin Light Chain 3 expression on U-2 OS cells. Cells were stained with purified anti-Human Myosin Light Chain 3, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

Background

MYL3, also named as MLC1v, is an essential light chain of myosin that is associated with muscle contraction. It is expressed in ventricular and slow skeletal muscle. MYL3 may serve as a target for caspase-3 in dying cardiomyocytes. Mutations of MYL3 gene cause hypertrophic cardiomyopathy. MYL3 has been identified as potential serum biomarker for drug induced myotoxicity. Great increase in MYL3 serum concentration has been observed in rats with cardiac and skeletal muscle injury.

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 Rev. V1.0