Recombinant Myosin Light Chain 3 Monoclonal Antibody

catalog number: **AN301607L**

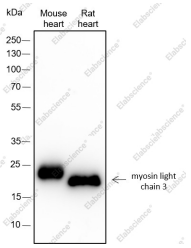
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	Recombinant human Myosin Light Chain 3 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C121230
Purification	Protein A purified
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

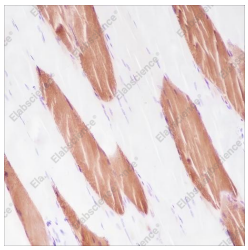
Data



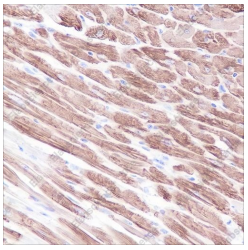
Western Blot with Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:2000. Lane 1: Mouse heart, Lane 2: Rat heart

Observed-MW:22 kDa

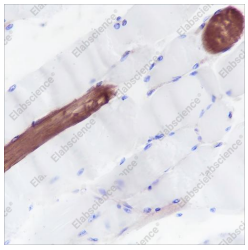
Calculated-MW:22 kDa



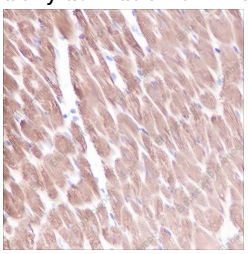
Immunohistochemistry of paraffin-embedded Human skeletal muscle using Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:1000.

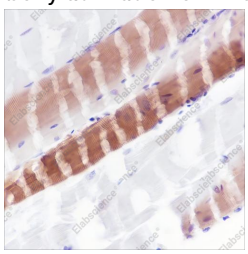


Immunohistochemistry of paraffin-embedded Mouse cardiac muscle using Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:1000.



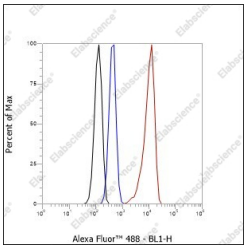
Immunohistochemistry of paraffin-embedded Mouse skeletal muscle using Myosin Light Chain 3 Monoclonal Antibody at dilution of 1:1000.





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.

Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web: www.elabscience.com
Email: techsupport@elabscience.com