

Anti-Myosin Light Chain 2 Rabbit Monoclonal Antibody

Catalog # ABO14275

Product Information

Application	WB, IHC, IP
Primary Accession	P10916
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-Myosin Light Chain 2 Rabbit Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	4633
Other Names	Myosin regulatory light chain 2, ventricular/cardiac muscle isoform, MLC-2, Ventricular myosin light chain 2, MYL2 (HGNC:7583)
Calculated MW	18789
Application Details	WB 1:1000-1:5000 IHC 1:50-1:200 IP 1:50
Subcellular Localization	Cytoplasm, myofibril, sarcomere, A band.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: FHO-13
Immunogen	A synthesized peptide derived from human Myosin Light Chain 2
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

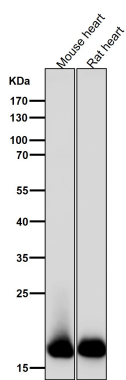
Name	MYL2 (HGNC:7583)
Function	Contractile protein that plays a role in heart development and function

(PubMed:[23365102](#), PubMed:[32453731](#)). Following phosphorylation, plays a role in cross-bridge cycling kinetics and cardiac muscle contraction by increasing myosin lever arm stiffness and promoting myosin head diffusion; as a consequence of the increase in maximum contraction force and calcium sensitivity of contraction force. These events altogether slow down myosin kinetics and prolong duty cycle resulting in accumulated myosins being cooperatively recruited to actin binding sites to sustain thin filament activation as a means to fine-tune myofilament calcium sensitivity to force (By similarity). During cardiogenesis plays an early role in cardiac contractility by promoting cardiac myofibril assembly (By similarity).

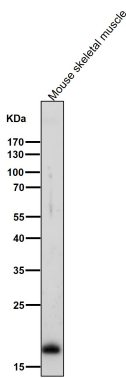
Cellular Location Cytoplasm, myofibril, sarcomere, A band {ECO:0000250|UniProtKB:P08733}

Tissue Location Highly expressed in type I muscle fibers.

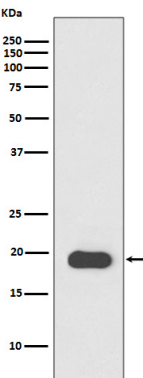
Images



All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.

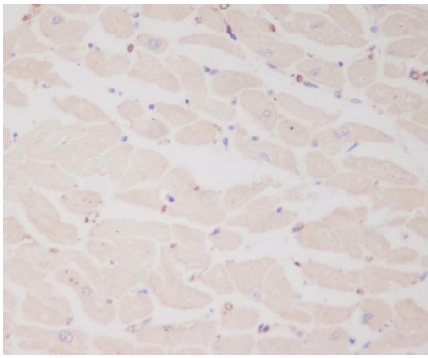


All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.



Western blot analysis of Myosin Light Chain 2 expression in Mouse heart lysate.

Immunohistochemical analysis of paraffin-embedded human heart, using Myosin Light Chain 2 Antibody.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.