SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-MYL3 antibody

Catalog Number: SL2240R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	MYL3
Immunogen:	KLH conjugated synthetic peptide derived from human MLC/Myosin light chain 3: 101-195/195
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Chicken,Dog,Pig,Cow,Rabbit)
Predicted MW.:	22kDa
Subcellular Location:	cytoplasmic
Background:	Myosin is the major component of thick muscle filaments, and is a long asymmetric molecule containing a globular head and a long tail. The molecule consists of two heavy chains each ~200,000 daltons, and four light chains each ~16,000 - 21,000 daltons. Activation of smooth and cardiac muscle primarily involves pathways which increase calcium and myosin phosphorylation resulting in contraction. Myosin light chain phosphatase acts to regulate muscle contraction by dephosphorylating activated myosin light chain. Human myosin light chain has clinical application as a cardiac marker. **Function:** Regulatory light chain of myosin. Does not bind calcium. **Subunit:** Myosin is a hexamer of 2 heavy chains and 4 light chains. **Post-translational modifications:** The N-terminus is blocked.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	N-terminus is methylated by METTL11A/NTM1. DISEASE: Cardiomyopathy, familial hypertrophic 8 (CMH8)[MIM:608751]: A hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death. Rarely, patients present a variant of familial hypertrophic cardiomyopathy, characterized by mid-left ventricular chamber thickening. Note=The disease is caused by mutations affecting the gene represented in this entry. **Similarity:** Contains 3 EF-hand domains. **Database links:** **Entrez Gene:** 4634 Human **Entrez Gene:** 17897 Mouse **Entrez Gene:** 24585 Rat Omim: 160790 Human **SwissProt:** P08590 Human **SwissProt:** P09542 Mouse **SwissProt:** P16409 Rat **Unigene:** 517939 Human **Unigene:** 7353 Mouse **Unigene:** 1955 Rat

[VALIDATION IMAGES]

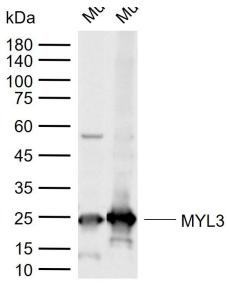


Figure 1. Sample: Lane 1: Mouse Muscle tissue lysates Lane 2: Rat Muscle tissue lysates Primary: Anti-MYL3 (SL2240R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 22 kDa Observed band size: 25 kDa

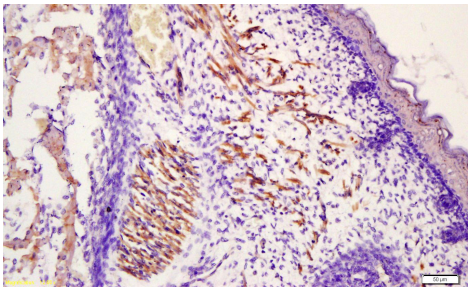


Figure 2. Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-MYL3 Polyclonal Antibody, Unconjugated(SL2240R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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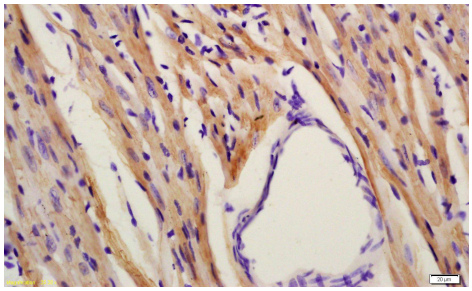


Figure 3. Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-MYL3 Polyclonal Antibody, Unconjugated(SL2240R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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