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Rabbit Anti-MYL3 antibody

SL2240R

Product Name:	MYL3
Chinese Name:	肌球蛋白轻链3抗体
Alias:	Cardiac myosin light chain 1; Slow skeletal Myosin; CMH8; CMLC1; MLC1SB; MLC1V; MYL3; MYL3_HUMAN; Myosin light chain 1; Myosin light chain 1 slow twitch muscle B ventricular isoform; myosin light chain 3 alkali ventricular skeletal slow; Myosin light chain 3; slow-twitch muscle B/ventricular isoform; Ventricular slow twitch myosin alkali light chain; Ventricular/slow twitch myosin alkali light chain; VLC1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:1000-10000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	22kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MLC/Myosin light chain 3:101-195/195
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.
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.

SWISS:
P08590

Gene ID:
4634

Database links:

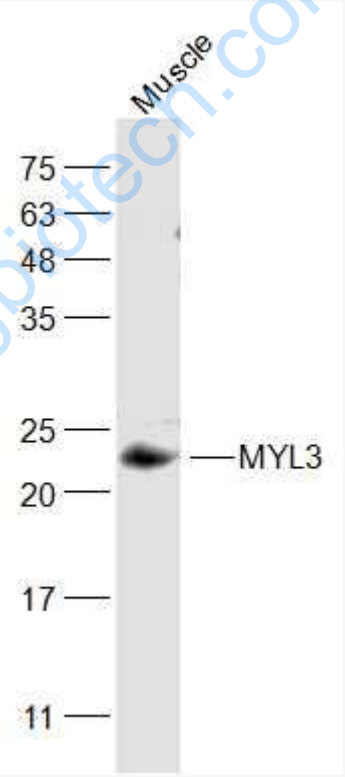
Entrez Gene: 4634Human

Entrez Gene: 17897Mouse

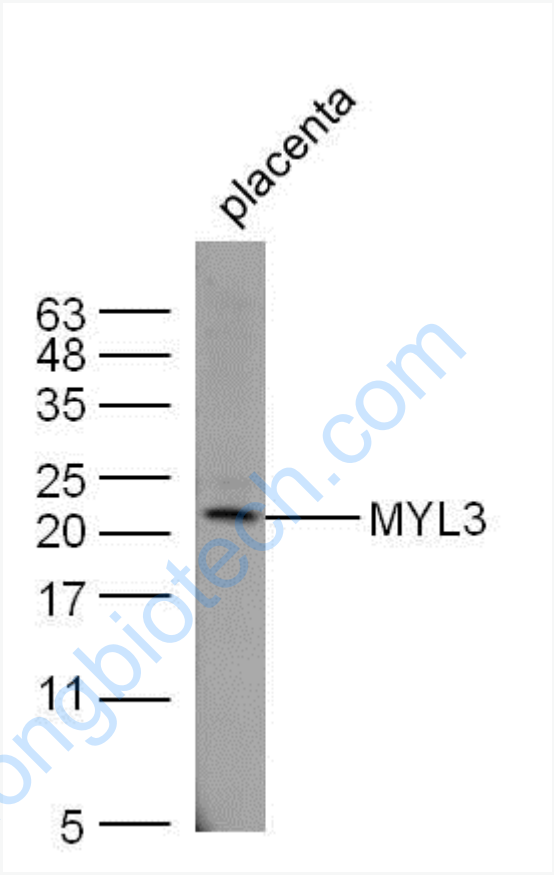
Entrez Gene: 24585Rat

Omim: 160790Human

SwissProt: P08590Human

	SwissProt: P09542Mouse SwissProt: P16409Rat Unigene: 517939Human Unigene: 7353Mouse Unigene: 1955Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Muscle (Mouse) Lysate at 40 ug Primary: Anti-MYL3 (SL2240R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 22 kD

Observed band size: 22 kD



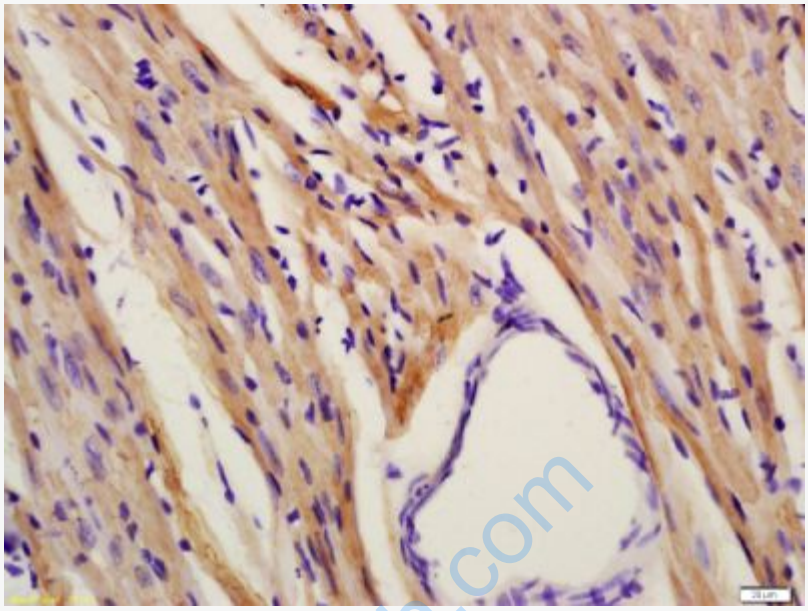
Sample: Placenta (Mouse) Lysate at 30 ug

Primary: Anti- MYL3(SL2240R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/10000 dilution

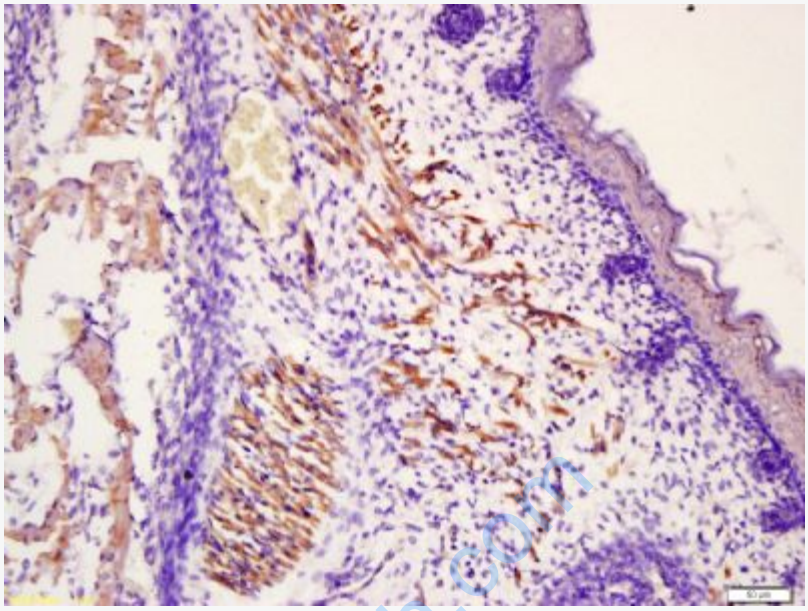
Predicted band size: 22kD

Observed band size: 22 kD



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



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℃ 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