

Product Name: MYL3 Mouse Monoclonal Antibody

Catalog #: AMM80736

For research use only.

Summary

Description Mouse monoclonal Antibody

Host Mouse

Application WB,IHC,ELISA

Reactivity Human

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer Purified antibody in PBS with 0.05% sodium azide.

Purification Affinity Purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000

Molecular Weight 22kDa

Antigen Information

Gene Name MYL3

Alternative Names CMH8; VLC1; MLC1V; MLC1SB

 Gene ID
 4634.0

 SwissProt ID
 P08590

Immunogen Purified recombinant fragment of MYL3 expressed in E. Coli.

Background

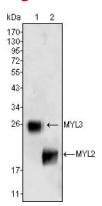
Myosins are a large superfamily of motor proteins that move along actin filaments, while hydrolyzing ATP. Myosin is the major component of thick muscle filaments, and is a long asymmetric molecule containing a globular head and a long tail. The molecule consists of two heavy chains and four light chains. Activation of smooth and cardiac muscle primarily involves



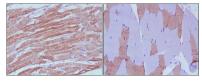
pathways which increase calcium and myosin phosphorylation resulting in contraction. Myosin light chain phosphatase acts to regulate muscle contraction by dephosphorylating activated myosin light chain. MYL3 encodes myosin light chain 3, an alkali light chain also referred to in the literature as both the ventricular isoform and the slow skeletal muscle isoform. Human myosin light chain has clinical application as a cardiac marker. Mutations in MYL3 have been identified as a cause of mid-left ventricular chamber type hypertrophic cardiomyopathy.

Research Area

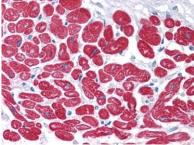
Image Data



Western blot analysis using MYL3 (1) and MYL2 (2) mouse mAb against rat fetal heart tissues lysate.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle (left) and cardiac muscle (right) using MYL3 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human Heart tissues using MYL3 mouse mAb.

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