

## MYL3 monoclonal antibody

Catalog: MB21223

Host: Mouse

Reactivity: Human

### 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.

### Product:

Purified antibody in PBS with 0.05% sodium azide.

### Molecular Weight:

22kDa

### Swiss-Prot:

P08590

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000

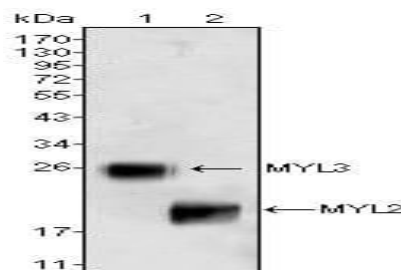
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

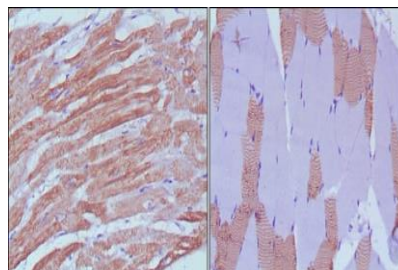
### Isotype:

Mouse IgG1

### 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.

### Note:

For research use only, not for use in diagnostic procedure.

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