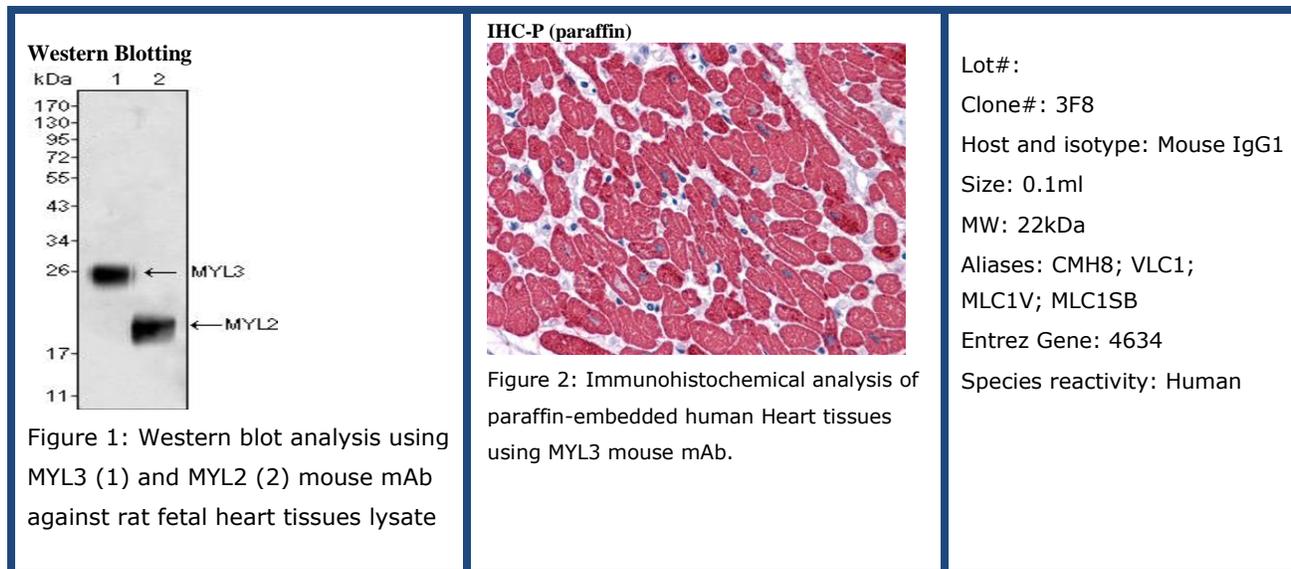




Category: Monoclonal Antibodies Cat. #: MAB-606020342

Product Name: Mouse Monoclonal Antibody to Human MYL3



Description

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.

Immunogen

Purified recombinant fragment of MYL3 expressed in E. Coli.

Application

Western Blotting: 1/500 - 1/2000.

Immunohistochemistry: 1/200 - 1/1000.

ELISA: Propose dilution 1/10000.

Not yet tested in other applications.

Determining optimal working dilutions by titration test.

Formulation

Ascitic fluid containing 0.03% sodium azide.

Storage

Store at 4°C, for long term storage, store at -20°C.

Related product

1. #20343, Mouse Monoclonal Antibody to MYL3;
2. #20324, Mouse Monoclonal Antibody to MYL2

References

For Research Use Only

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