

MYL3 (7C1) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 252883

Unit: 0.1 ml

Description:

MYL3 (Myosin light chain 3, an alkali light chain) is referred as both the ventricular isoform and the slow skeletal muscle isoform. 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. 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.

Isotype: Mouse IgG1

Applications: E, IHC, WB

Species Reactivity: H, R

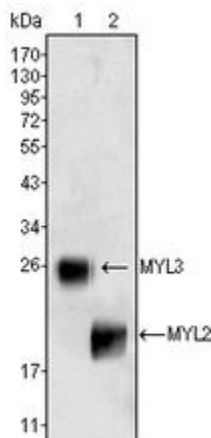
Format: Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

Alternate Names: Myosin light chain 3; Cardiac myosin light chain 1; CMLC1; Myosin light chain 1, slow-twitch muscle B/ventricular isoform; MLC1SB; Ventricular/slow twitch myosin alkali light chain; MYL3

Accession No.: P08590

Antigen: Purified recombinant fragment of MYL3 expressed in *E. coli*.

Application Notes: E: 10000; WB: 1:500-1:2000; IHC: 1:200-1:1000



The MYL3 (7C1) Antibody (Cat. No. 252883) is used in Western blot to detect MYL3 (lane 1) in rat fetal heart tissue lysate.

Storage: Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.