

Human MYL2 antibody

Catalog Number: ATGA0531

PRODUCT INFORMATION

Catalog number

ATGA0531

Clone No.

AT3B2

Product type

Monoclonal antibody

UnitProt No.

P10916

NCBI Accession No.

NP_000423

Alternative Names

Slow cardiac myosin regulatory light chain 2, MLC2, CMH10, DKFZp779C0562, Slow cardiac myosin regulatory light chain 2, MYL2, Slow cardiac myosin regulatory light chain 2 Cardiac myosin light chain-2, MLC 2v, MYL 2, Cardiac ventricular myosin light chain 2, RLC of myosin, Myosin light chain 2 regulatory cardiac slow, Myosin light polypeptide 2 regulatory cardiac slow, Myosin regulatory light chain 2 ventricular cardiac muscle isoform, Myosin regulatory light chain 2 ventricular/cardiac muscle isoform, Regulatory light chain of myosin

Additional Information

This product was produced from tissue culture supernatant.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human MYL2 (1-166aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS

Human MYL2 antibody

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Usage

The antibody has been tested by ELISA, Western blot and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

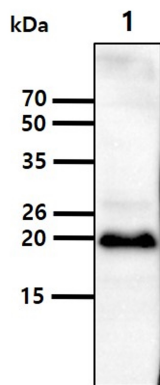
Myosin, light chain 2 (MYL2) encodes the regulatory light chain associated with cardiac myosin beta heavy chain. It is an important protein involved in the regulation of myosin ATPase activity in smooth muscle and Ca⁺ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in MYL2 are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy.

General References

Macera MJ, et al., (1992) Genomics. 13(3):829-31.
Poetter K, et al., (1996) Nat Genet. 13(1):63-9.

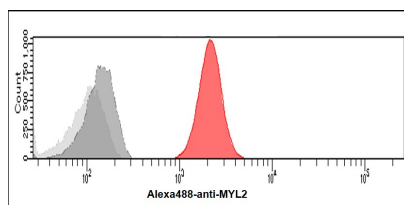
DATA

Western blot analysis (WB)



The tissue lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MYL2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: Mouse Heart Tissue lysate

Flow cytometry (FACS)



Flow cytometry analysis of MYL2 in A431 cells. The cell was stained with ATGA0531 at 2-5ug for 1x10⁶ cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).