Human MYL2 antibody

Catalog Number: ATGA0151

PRODUCT INFORMATION

Catalog number
ATGA0151

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

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, ICC/IF, FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC/IF 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)

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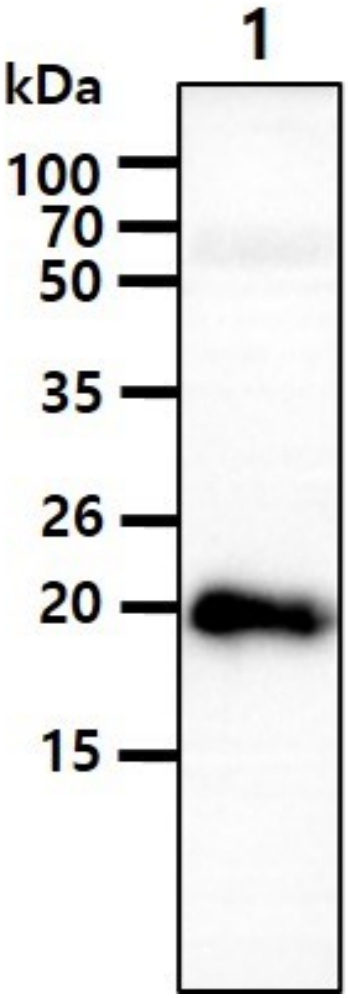
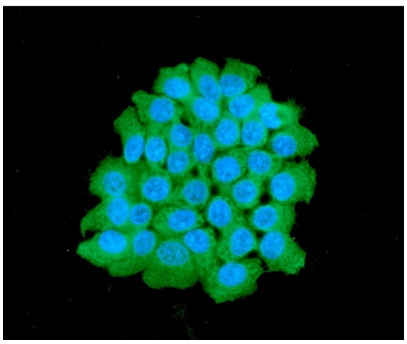


The tissue lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MYL2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: Mouse heart tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of MYL2 in A431 cells. The cell was stained with ATGA0151 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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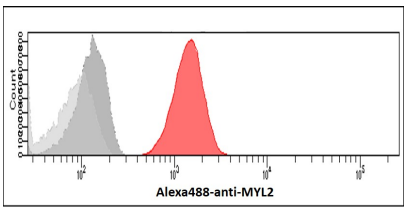

Flow cytometry analysis of MYL2 in A431 cells. The cell was stained with ATGA0151 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).