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# **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



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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**

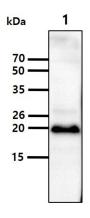
Myosin, light chain 2 (MYL2) encodes the regulatory light chain associated with cardiac myosin beta heavy chain. It is an important protein involved in the regulation of myosin ATPase activity in smooth muscle and Ca+ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. 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.

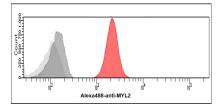
#### **DATA**

## 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 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).

