



# MYL2 Monoclonal Antibody

|                           |  |
|---------------------------|--|
| <b>Catalog No</b>         | BYab-02936   |
| <b>Isotype</b>            | IgG  |
| <b>Reactivity</b>         | Human  |
| <b>Applications</b>       | WB;ELISA   |
| <b>Gene Name</b>          | MYL2   |
| <b>Protein Name</b>       | Myosin regulatory light chain 2 ventricular/cardiac muscle isoform   |
| <b>Immunogen</b>          | Purified recombinant fragment of MYL2 expressed in E. Coli.  |
| <b>Specificity</b>        | MYL2 Monoclonal Antibody detects endogenous levels of MYL2 protein.  |
| <b>Formulation</b>        | Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.   |
| <b>Source</b>             | Monoclonal, Mouse  |
| <b>Purification</b>       | Affinity purification  |
| <b>Dilution</b>           | Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.  |
| <b>Concentration</b>      | 1 mg/ml  |
| <b>Purity</b>             | ≥90%   |
| <b>Storage Stability</b>  | -20°C/1 year   |
| <b>Synonyms</b>           | MYL2; Myosin regulatory light chain 2; ventricular/cardiac muscle isoform; MLC-2; MLC-2v   |
| <b>Observed Band</b>      |  |
| <b>Cell Pathway</b>       | Cytoplasm, myofibril, sarcomere, A band .  |
| <b>Tissue Specificity</b> | Highly expressed in type I muscle fibers.  |
| <b>Function</b>           | disease:Defects in MYL2 are the cause of cardiomyopathy familial hypertrophic type 10 (CMH10) [MIM:608758]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death.,disease:Defects in MYL2 are the cause of cardiomyopathy hypertrophic with mid-left ventricular chamber type 2 (MVC2) [MIM:608758]. MVC2 is a very rare variant of familial hypertrophic cardiomyopathy, characterized by mid-left ventricular chamber thickening.,miscellaneous:This chain binds calcium.,similarity:Contains 3 EF-hand doma |

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**Background**

This gene encodes the regulatory light chain associated with cardiac myosin beta (or slow) heavy chain. Ca<sup>+</sup> triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008],

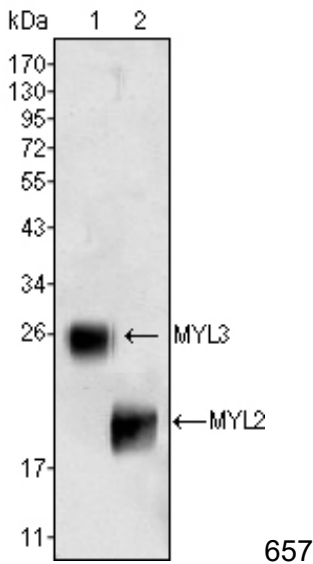
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western Blot analysis using MYL2 Monoclonal Antibody against rat fetal heart tissue lysate.