Best Tools for immunology Research

MYL2 Monoclonal Antibody

Catalog No :	YM0458
Reactivity :	Human
Applications :	WB;ELISA
Target :	MYL2
Fields :	>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Apelin signaling pathway;>>Focal adhesion;>>Tight junction;>>Leukocyte transendothelial migration;>>Regulation of actin cytoskeleton;>>Shigellosis;>>Salmonella infection;>>Hypertrophic cardiomyopathy;>>Dilated cardiomyopathy
Gene Name :	MYL2
Protein Name :	Myosin regulatory light chain 2 ventricular/cardiac muscle isoform
Human Gene Id :	4633
Human Swiss Prot No :	P10916
Mouse Swiss Prot No :	P51667
Immunogen :	Purified recombinant fragment of MYL2 expressed in E. Coli.
Specificity :	MYL2 Monoclonal Antibody detects endogenous levels of MYL2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 19kD

Cell Pathway : Cardiac muscle contraction;Focal adhesion;Tight junction;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;Hypertrophic cardiomyopathy (HCM);Dilated cardiomyopathy;

P References :
1. DNA Seq. 2003 Oct;14(5):339-50.
2. Oncogene. 2002 Aug 29;21(38):5852-60.

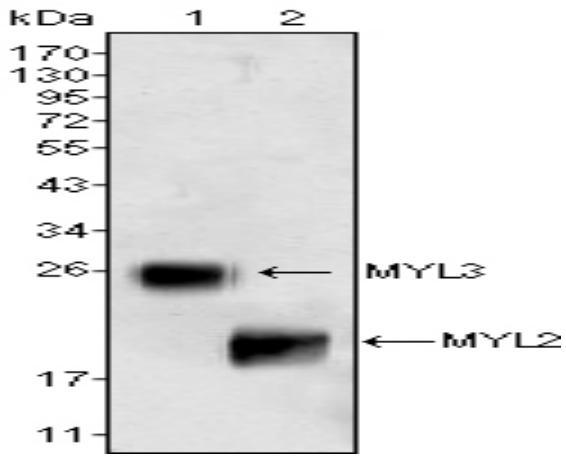
Background : Thus gene encodes the regulatory light chain associated with cardiac myosin beta (or slow) heavy chain. Ca+ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type hypertrophic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

Function : 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

Subcellular Location : Cytoplasm, myofibril, sarcomere, A band .

Expression : Highly expressed in type I muscle fibers.

Products Images



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