Best Tools for immunology Research

MYL3 Monoclonal Antibody

Catalog No :	YM0459
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	MYL3
Fields :	>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Apelin signaling pathway;>>Hypertrophic cardiomyopathy;>>Dilated cardiomyopathy
Gene Name :	MYL3
Protein Name :	Myosin light chain 3
Human Gene Id :	4634
Human Swiss Prot No :	P08590
Mouse Swiss Prot No :	P09542
Immunogen :	Purified recombinant fragment of MYL3 expressed in E. Coli.
Specificity :	MYL3 Monoclonal Antibody detects endogenous levels of MYL3 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. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	22kD

Cell Pathway : Cardiac muscle contraction;Hypertrophic cardiomyopathy (HCM);Dilated cardiomyopathy;

P References :

1. Xie B, et al. Biophys Chem. 2003 Oct 1;106(1):57-66.
2. Haase H, et al. FASEB J. 2006 May;20(7):865-73.

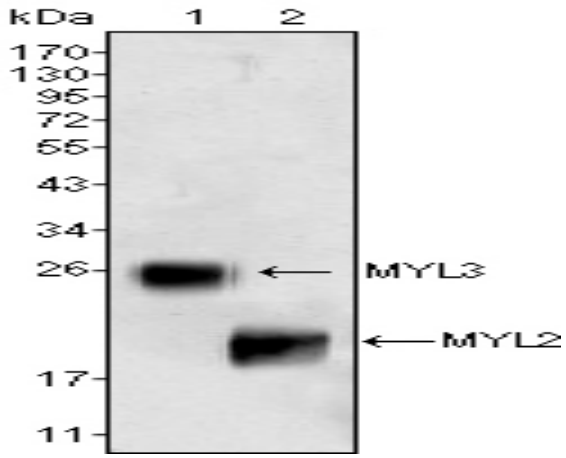
Background : MYL3 encodes myosin light chain 3, an alkali light chain also referred to in the literature as both the ventricular isoform and the slow skeletal muscle isoform. Mutations in MYL3 have been identified as a cause of mid-left ventricular chamber type hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008],

Function : disease:Defects in MYL3 are the cause of cardiomyopathy familial hypertrophic type 8 (CMH8) [MIM:608751]. 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. CMH8 inheritance can be autosomal dominant or recessive.,disease:Defects in MYL3 are the cause of cardiomyopathy hypertrophic with mid-left ventricular chamber type 1 (MVC1) [MIM:608751]. MVC1 is a very rare variant of familial hypertrophic cardiomyopathy, characterized by mid-left ventricular chamber thickening.,function:Regulatory

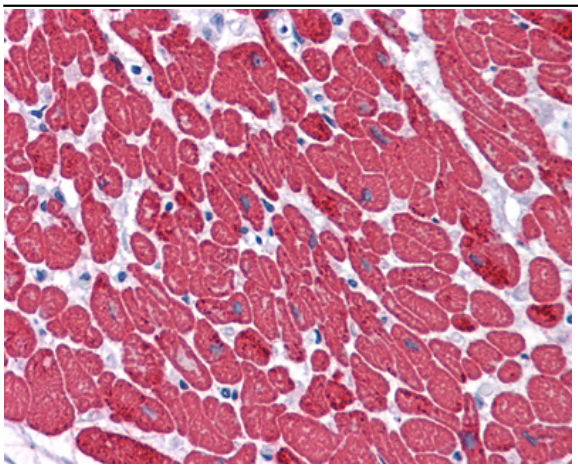
Subcellular Location : cytosol,muscle myosin complex,myosin complex,sarcomere,A band,I band,

Expression : Heart,Skeletal muscle,

Products Images



Western Blot analysis using MYL3 Monoclonal Antibody against rat fetal heart tissues lysate.



Immunohistochemistry analysis of paraffin-embedded human Heart tissues with AEC staining using MYL3 Monoclonal Antibody.