Best Tools for immunology Research

MYL2 Polyclonal Antibody

Catalog No :	YT6094
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
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 :	MYL2
Human Gene Id :	4633
Human Swiss Prot No :	P10916
Mouse Gene Id :	17906
Mouse Swiss Prot No :	P51667
Immunogen :	Synthesized peptide derived from human MYL2. at AA range: 91-140
Specificity :	MYL2 Polyclonal Antibody detects endogenous levels of MYL2
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	18kD
Cell Pathway :	Cardiac muscle contraction;Focal adhesion;Tight junction;Leukocyte transendothelial migration;Regulates Actin and Cytoskeleton;Hypertrophic cardiomyopathy (HCM);Dilated cardiomyopathy;
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.

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