Best Tools for immunology Research

MYLK2 Polyclonal Antibody

Catalog No :	YN0267
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	MYLK2
Fields :	>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>Vascular smooth muscle contraction;>>Apelin signaling pathway;>>Focal adhesion;>>Platelet activation;>>Regulation of actin cytoskeleton;>>Oxytocin signaling pathway;>>Gastric acid secretion
Gene Name :	MYLK2
Protein Name :	Myosin light chain kinase 2, skeletal/cardiac muscle (MLCK2) (EC 2.7.11.18)
Human Gene Id :	85366
Human Swiss Prot No :	Q9H1R3
Mouse Swiss Prot No :	Q8VCR8
Rat Swiss Prot No :	P20689
Immunogen :	Synthesized peptide derived from human protein . at AA range: 370-450
Specificity :	MYLK2 Polyclonal Antibody detects endogenous levels of protein.
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
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 :	65kD
Cell Pathway :	Calcium;Vascular smooth muscle contraction;Focal adhesion;Regulates Actin and Cytoskeleton;
Background :	This gene encodes a myosin light chain kinase, a calcium/calmodulin dependent enzyme, that is exclusively expressed in adult skeletal muscle. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:ATP + [myosin light-chain] = ADP + [myosin light-chain] phosphate.,disease:Defects in MYLK2 are a cause of cardiomyopathy familial hypertrophic (CMH) [MIM:192600]; also designated FHC or HCM. 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.,function:Implicated in the level of global muscle contraction and cardiac function. Phosphorylates a specific serine in the N-terminus of a myosin light chain.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr pr
Subcellular Location :	Cytoplasm. Colocalizes with phosphorylated myosin light chain (RLCP) at filaments of the myofibrils.
Expression :	Heart and skeletal muscles. Increased expression in the apical tissue compared to the interventricular septal tissue.

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