

## MYLK2 Polyclonal Antibody

<b>Catalog No :</b>	YN0267
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	MYLK2
<b>Fields :</b>	>>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
<b>Gene Name :</b>	MYLK2
<b>Protein Name :</b>	Myosin light chain kinase 2, skeletal/cardiac muscle (MLCK2) (EC 2.7.11.18)
<b>Human Gene Id :</b>	85366
<b>Human Swiss Prot No :</b>	Q9H1R3
<b>Mouse Swiss Prot No :</b>	Q8VCR8
<b>Rat Swiss Prot No :</b>	P20689
<b>Immunogen :</b>	Synthesized peptide derived from human protein . at AA range: 370-450
<b>Specificity :</b>	MYLK2 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	65kD
<b>Cell Pathway :</b>	Calcium;Vascular smooth muscle contraction;Focal adhesion;Regulates Actin and Cytoskeleton;
<b>Background :</b>	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],
<b>Function :</b>	<p>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</p>
<b>Subcellular Location :</b>	Cytoplasm. Colocalizes with phosphorylated myosin light chain (RLCP) at filaments of the myofibrils.
<b>Expression :</b>	Heart and skeletal muscles. Increased expression in the apical tissue compared to the interventricular septal tissue.

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