



MYLK2 Polyclonal Antibody

Catalog No	YP-Ab-05141
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	MYLK2
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KMLC;MLCK;MLCK2;MYLK2;myosin light chain kinase 2;skMLCK;skeletal/cardiac muscle (MLCK2) (EC 2.7.11.18)
Observed Band	65 kDa
Calculated Molecular Weight	596 aa, 65 kDa
Cell Pathway	Cytoplasm. Colocalizes with phosphorylated myosin light chain (RLCP) at filaments of the myofibrils.
Tissue Specificity	Heart and skeletal muscles. Increased expression in the apical tissue compared to the interventricular septal tissue.
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

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],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images