

MYLK2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59409

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9H1R3
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64685

Additional Information

Gene ID	85366
Other Names	Myosin light chain kinase 2, skeletal/cardiac muscle, MLCK2, 2.7.11.18, MYLK2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MYLK2
Function	Ca(2+)/calmodulin-dependent kinase that phosphorylates the regulatory light chain (RLC) of sarcomeric myosin in skeletal and cardiac muscle. Phosphorylation of RLC promotes displacement of myosin cross-bridges from the thick filament backbone toward actin-containing thin filaments, increasing the probability of cross-bridge entry into force-generating states and thereby potentiating contractile force at submaximal Ca(2+) concentrations.
Cellular Location	Cytoplasm. Note=Colocalizes with phosphorylated myosin light chain (RLCP) at filaments of the myofibrils
Tissue Location	Heart and skeletal muscles. Increased expression in the apical tissue compared to the interventricular septal tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.