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MYLK3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11849c

Specification

MYLK3 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q32MK0
Other Accession	NP_872299.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**88393**
Antigen Region	**535-562**

MYLK3 Antibody (Center) - Additional Information

Gene ID 91807

Other Names
Myosin light chain kinase 3, Cardiac-MyBP-C-associated Ca/CaM kinase, Cardiac-MLCK, MYLK3, MLCK

Target/Specificity
This MYLK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 535-562 amino acids from the Central region of human MYLK3.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MYLK3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MYLK3 Antibody (Center) - Protein Information

Name MYLK3

Synonyms MLCK

Function Kinase that phosphorylates MYL2 in vitro. Promotes sarcomere formation in cardiomyocytes and increases cardiomyocyte contractility (By similarity).

Cellular Location
Cytoplasm.

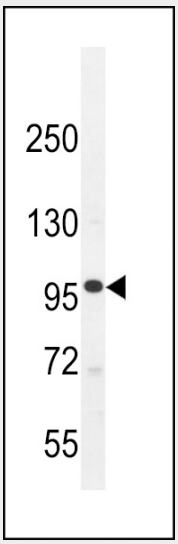
Tissue Location
Restricted to heart..

MYLK3 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MYLK3 Antibody (Center) - Images



MYLK3 Antibody (Center) (Cat. #AP11849c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the MYLK3 antibody detected the MYLK3 protein (arrow).

MYLK3 Antibody (Center) - Background

Phosphorylation of cardiac myosin heavy chains (see MYH7B, MIM 609928) and light chains (see MYL2, MIM 160781) by a kinase, such as MYLK3, potentiates the force and rate of cross-bridge recruitment in cardiac myocytes (Chan et al., 2008 [PubMed 18202317]).

MYLK3 Antibody (Center) - References

Al-Sadi, R., et al. J. Immunol. 180(8):5653-5661(2008)
Chan, J.Y., et al. Circ. Res. 102(5):571-580(2008)
Seguchi, O., et al. J. Clin. Invest. 117(10):2812-2824(2007)