

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

E~~Use at an assay dependent concentration.

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.

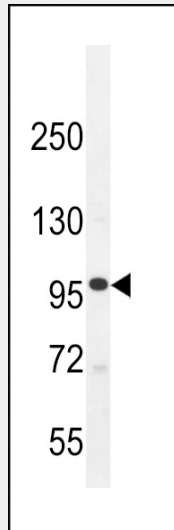
Tissue Location

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 Cytometry](#)
- [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)