

Mouse Mylk3 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13923A

Specification

Mouse Mylk3 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q3UIZ8
Other Accession	NP_780650.2
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	174-203

Mouse Mylk3 Antibody (N-term) - Additional Information

Gene ID 213435

Other Names

Myosin light chain kinase 3, Cardiac-MyBP-C-associated Ca/CaM kinase, Cardiac-MLCK, Mylk3

Target/Specificity

This Mouse Mylk3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 174-203 amino acids from the N-terminal region of mouse Mylk3.

Dilution

WB~~1:2000

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

Mouse Mylk3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Mylk3 Antibody (N-term) - Protein Information

Name Mylk3

Function Kinase that phosphorylates MYL2 in vitro (PubMed:[17885681](#), PubMed:[18202317](#)). Has been proposed to be calmodulin-dependent (PubMed:[17885681](#)), although MYL2 phosphorylation

has also been observed in the presence or absence of calmodulin (PubMed:[18202317](#)). Promotes sarcomere formation in cardiomyocytes and increases cardiomyocyte contractility (By similarity).

Cellular Location

Cytoplasm.

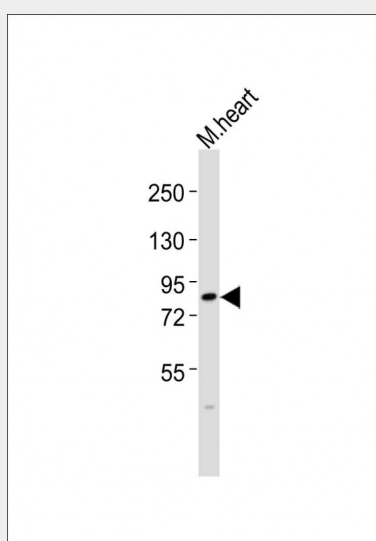
Tissue Location

Restricted to cardiomyocytes (at protein level). Down-regulated in heart after experimental myocardial infarction at the protein level; no significant changes at the mRNA level

Mouse Mylk3 Antibody (N-term) - 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](#)

Mouse Mylk3 Antibody (N-term) - Images

Anti-Mylk3 Antibody (N-term) at 1:2000 dilution + mouse heart lysates. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 86.4 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.

Mouse Mylk3 Antibody (N-term) - Background

Mylk3 may play a role in smooth muscle contraction (By similarity).

Mouse Mylk3 Antibody (N-term) - References

White, R.A., et al. Blood Cells Mol. Dis. 43(2):141-148(2009)
Chan, J.Y., et al. Circ. Res. 102(5):571-580(2008)

Kim, B.J., et al. Can. J. Physiol. Pharmacol. 85(12):1254-1262(2007)
Seguchi, O., et al. J. Clin. Invest. 117(10):2812-2824(2007)
Choi, Y.O., et al. Exp. Mol. Med. 38(2):180-189(2006)