

**Mouse Mylk3 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13923a****Specification**

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**Mouse Mylk3 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q3UIZ8](#)**Mouse Mylk3 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 213435**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13923a was selected from the N-term region of Mouse Mylk3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Mouse Mylk3 Antibody (N-term) Blocking peptide - Protein Information****Name** Mylk3**Function**

Kinase that phosphorylates MYL2 in vitro (PubMed:<a href="http://www.uniprot.org/citations/18202317" target="\_blank">18202317</a>, PubMed:<a href="http://www.uniprot.org/citations/17885681" target="\_blank">17885681</a>). Has been proposed to be calmodulin-dependent (PubMed:<a href="http://www.uniprot.org/citations/17885681" target="\_blank">17885681</a>), although MYL2 phosphorylation has also been observed in the presence or absence of calmodulin (PubMed:<a href="http://www.uniprot.org/citations/18202317" target="\_blank">18202317</a>). 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) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**Mouse Mylk3 Antibody (N-term) Blocking peptide - Images****Mouse Mylk3 Antibody (N-term) Blocking peptide - Background**

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

**Mouse Mylk3 Antibody (N-term) Blocking peptide - 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)