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MYL9 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP14674b

Specification

MYL9 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P24844

MYL9 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 10398

Other Names
Myosin regulatory light polypeptide 9, 20 kDa myosin light chain, LC20, MLC-2C, Myosin RLC, Myosin regulatory light chain 2, smooth muscle isoform, Myosin regulatory light chain 9, Myosin regulatory light chain MRLC1, MYL9, MLC2, MRLC1, MYRL2

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.

MYL9 Antibody (C-term) Blocking Peptide - Protein Information

Name MYL9

Synonyms MLC2, MRLC1, MYRL2

Function
Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Implicated in cytokinesis, receptor capping, and cell locomotion (PubMed:11942626, PubMed:2526655). In myoblasts, may regulate PIEZO1-dependent cortical actomyosin assembly involved in myotube formation (By similarity).

Cellular Location
Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9CQ19}. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q9CQ19}. Note=Colocalizes with F-actin, MYH9 and PIEZO1 at the actomyosin cortex in myoblasts {ECO:0000250|UniProtKB:Q9CQ19}

Tissue Location
Smooth muscle tissues and in some, but not all, nonmuscle cells.

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MYL9 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

MYL9 Antibody (C-term) Blocking Peptide - Images

MYL9 Antibody (C-term) Blocking Peptide - Background

Myosin, a structural component of muscle, consists of twoheavy chains and four light chains. The protein encoded by thisgene is a myosin light chain that may regulate muscle contractionby modulating the ATPase activity of myosin heads. The encodedprotein binds calcium and is activated by myosin light chainkinase. Two transcript variants encoding different isoforms havebeen found for this gene.

MYL9 Antibody (C-term) Blocking Peptide - References

Gilles, L., et al. Blood 114(19):4221-4232(2009)Higashihara, M., et al. J Smooth Muscle Res 44(1):29-40(2008)Szczesna-Cordary, D., et al. J. Cell. Sci. 118 (PT 16), 3675-3683 (2005) :Webb, R.C. Adv Physiol Educ 27 (1-4), 201-206 (2003) :Deloukas, P., et al. Nature 414(6866):865-871(2001)