

**Anti-MYL9 Antibody**  
**Catalog # AP53909****Specification**

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**Anti-MYL9 Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P24844</a>
Other Accession	<a href="#">P19105</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19827

**Anti-MYL9 Antibody - Additional Information****Gene ID** 10398**Other Names**

MYL9; MLC2; MRLC1; MYRL2; 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; MYL12A; MLCB; MRLC3; RLC; Myosin regulatory light chain 12A; MLC-2B; Myosin RLC; Myosin regulatory light chain 2, nonsarcomeric; Myosin regulatory light chain MRLC3

**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human MYL9. The exact sequence is proprietary.

**Dilution**

WB~~1/500 - 1/1000

IF~~1/50 - 1/200

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-MYL9 Antibody - 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:<a href="http://www.uniprot.org/citations/11942626" target="\_blank">11942626</a>, PubMed:<a href="http://www.uniprot.org/citations/2526655" target="\_blank">2526655</a>). 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

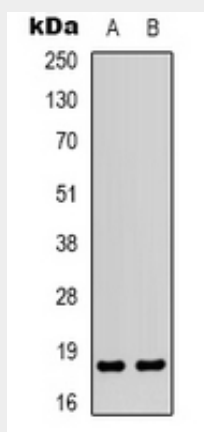
Smooth muscle tissues and in some, but not all, nonmuscle cells.

### Anti-MYL9 Antibody - Protocols

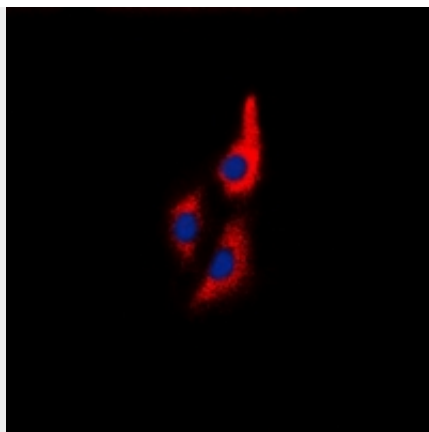
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-MYL9 Antibody - Images



Western blot analysis of MYL9 expression in Jurkat (A), COLO205 (B) whole cell lysates.



Immunofluorescent analysis of MYL9 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

#### **Anti-MYL9 Antibody - Background**

Rabbit polyclonal antibody to MYL9