

## Rabbit MYL9 Polyclonal Antibody | anti-MYL9 antibody

MYL9 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA326887 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

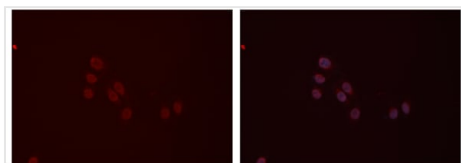
### PRODUCT SYNONYMS

MYL9; Polyclonal Antibody; MYL9 Antibody; Myosin light chain regulatory B; Myosin regulatory light chain 2 B; smooth muscle isoform; RLC B; anti-MYL9 antibody

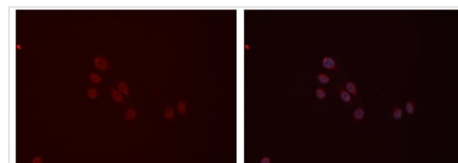
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                  |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                           |
| Reactivity                                     | Human, Mouse, Rat                                                                                                |
| Clonality                                      | Polyclonal                                                                                                       |
| Isotype                                        | IgG                                                                                                              |
| Specificity                                    | MYL9 antibody detects endogenous levels of total MYL9                                                            |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                    |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                    |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                           |
| Sequence Length                                | 172                                                                                                              |
| Applicable Applications for anti-MYL9 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)         |
| Immunogen                                      | A synthetic peptide of human MYL9                                                                                |
| Tissue Specificity                             | Smooth muscle tissues and in some, but not all, nonmuscle cells.                                                 |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                  |
| Similarity                                     | Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%) |
| Conjugation                                    | Unconjugated                                                                                                     |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                |

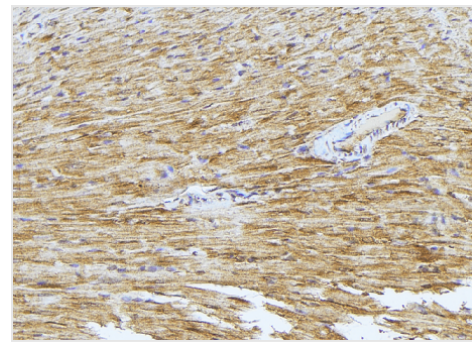
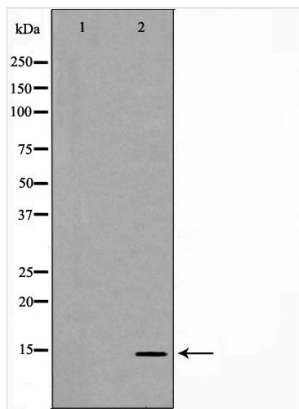
### IMAGES


**IF (Immunofluorescence)**

AAA326887 staining LOVO cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.


**IF (Immunofluorescence)**

AAA326887 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600 was used as secondary antibody.



#### IHC (Immunohistochemistry)

AAA326887 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

#### WB (Western Blot)

Western blot analysis of Hela cell lysate, using MYL9 Antibody. The lane on the left is treated with the antigen-specific peptide.

## ADDITIONAL INFORMATION

#### Related Product Information for anti-MYL9 antibody

**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.  
**Subunit Structure:** Myosin is a hexamer of 2 heavy chains and 4 light chains: interacts with myosin heavy chain MYO19.

**Post-translational Modifications:** Phosphorylation increases the actin-activated myosin ATPase activity and thereby regulates the contractile activity. It is required to generate the driving force in the migration of the cells but not necessary for localization of myosin-2 at the leading edge.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| NCBI GI #                        | 29568111                                        |
| NCBI GeneID                      | 10398                                           |
| NCBI Accession #                 | NP_006088.2                                     |
| NCBI GenBank Nucleotide #        | NM_006097.4                                     |
| UniProt Accession #              | P24844; Q9BQL9; Q9BUF9; Q9H136; E1P5T6          |
| Molecular Weight                 | Observed: 14 kD<br>Predicted: 20 kDa            |
| NCBI Official Full Name          | myosin regulatory light polypeptide 9 isoform a |
| NCBI Official Synonym Full Names | myosin light chain 9                            |
| NCBI Official Symbol             | MYL9                                            |
| NCBI Official Synonym Symbols    | LC20; MLC2; MRLC1; MYRL2; MLC-2C                |
| NCBI Protein Information         | myosin regulatory light polypeptide 9           |
| UniProt Protein Name             | Myosin regulatory light polypeptide 9           |
| UniProt Gene Name                | <b>MYL9</b>                                     |
| UniProt Synonym Gene Names       | MLC2; MRLC1; MYRL2; LC20                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/myl9-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326887>