SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-MYL9 antibody

Catalog Number: SL2380R

FOR RESEARCH USE ONLY

[DATASHEET]

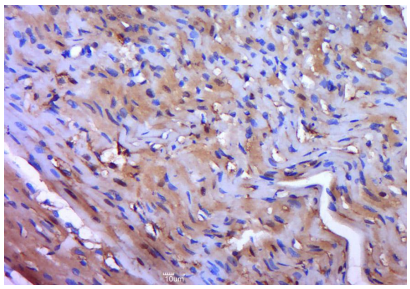
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	MYL9
Immunogen:	KLH conjugated synthetic peptide derived from human MYL9: 2-100/172
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:200-1000 IF=1:200-1000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Pig,Cow,Rabbit,Sheep)
Predicted MW.:	20kDa
Subcellular Location:	cytoplasmic
Background:	MYL9 is the myosin light chain that may regulate muscle contraction by modulating the ATPase activity of myosin heads. MYL9 protein binds calcium and is activated by myosin light chain kinase. Two transcript variants encoding different isoforms have been found for MYL9 and the deduced 172-amino acid protein is highly conserved, with only 3 differences between the human and chicken proteins. Light chain phosphorylation causes the folded monomeric form of myosin to extend and assemble into filaments. This observation established the involvement of the MYL9 in conformational transitions of smooth muscle myosin. **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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subunit: Myosin is a hexamer of 2 heavy chains and 4 light chains. **Tissue Specificity:** Smooth muscle tissues and in some, but not all, nonmuscle cells. **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 (By similarity). **Similarity:** Contains 3 EF-hand domains. **Database links:** **Entrez Gene:** 10398 Human **Entrez Gene:** 98932 Mouse **Entrez Gene:** 296313 Rat Omim: 609905 Human **SwissProt:** P24844 Human **SwissProt:** Q9CQ19 Mouse **SwissProt:** Q64122 Rat **Unigene:** 504687 Human **Unigene:** 271770 Mouse **Unigene:** 6870 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (rat heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MYL9) Polyclonal Antibody, Unconjugated (SL2380R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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