SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-Myocardin antibody

Catalog Number: SL23708R

FOR RESEARCH USE ONLY

[DATASHEET]

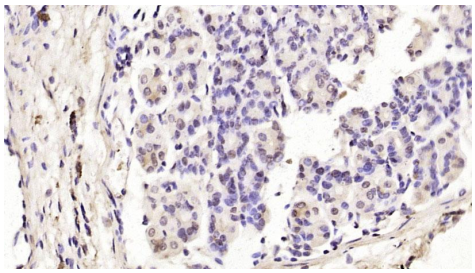
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Myocardin
Immunogen:	KLH conjugated synthetic peptide derived from human Myocardin : 671-770/938
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Horse,Sheep)
Predicted MW.:	103kDa
Subcellular Location:	The nucleus
Background:	Transcriptional factor that uses the canonical single or multiple CArG boxes DNA sequence. Binds CArG boxes only in the presence of serum response factor (SRF). Acts as a cofactor of SRF and modulates SRF-target genes. Regulates the expression of a set of cardiac and smooth muscle-specific genes. Plays a crucial role in cardiogenesis and differentiation of the smooth muscle cell lineage. **Function:** Smooth muscle cells (SM) and cardiac muscle cells-specific transcriptional factor which uses the canonical single or multiple CArG boxes DNA sequence. Acts as a cofactor of serum response factor (SRF) with the potential to modulate SRF-target genes. Plays a crucial role in cardiogenesis and differentiation of the smooth muscle cell lineage (myogenesis). **Subunit:** Homodimer. Interacts with SRF, its association does not depend on

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	specific DNA sequences for ternary complex formation. Interacts with MLLT7/FOXO4. Interacts (via C-terminal) with EP300 (via the CREB-binding domain). Interacts with HDAC4 and HDAC5 (By similarity). Interacts with MEF2C. **Subcellular Location:** Nucleus. **Tissue Specificity:** Expressed in heart, aorta, and in smooth muscle cell-containing tissues: stomach, bladder, small intestine, colon, lung, placenta and uterus. Very faint expression in prostate and skeletal muscle. **Post-translational modifications:** Phosphorylation regulates negatively the intrinsic myocardin transcriptional activity. **Similarity:** Contains 3 RPEL repeats. Contains 1 SAP domain. **SWISS:** Q8IZQ8 **Gene ID:** 93649

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse stomach 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 (Myocardin) Polyclonal Antibody, Unconjugated (SL23708R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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