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Myocardin Rabbit pAb

Catalog # AP98091

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8IZQ8
Other Accession	Q8IZQ8
Reactivity	Mouse
Predicted	Rat, Pig, Human, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101997
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Myocardin
Epitope Specificity	671-770/938
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 3 RPEL repeats.Contains 1 SAP domain.
SUBUNIT	Homodimer. Interacts with SRF, its association does not depend on 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.
Post-translational modifications	Phosphorylation regulates negatively the intrinsic myocardin transcriptional activity.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	93649
Other Names	MGBL; MYCD; BSAC2A; Srfcp; MYCD_HUMAN; MYOCD; MYCD_MOUSE; Basic SAP coiled-coil transcription activator 2; SRF cofactor protein; Bsac2; MYCD_RAT; myocardin
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MYOCD
Synonyms	MYCD
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, urinary bladder development, and differentiation of the smooth muscle cell lineage (myogenesis) (By similarity). Positively regulates the transcription of genes involved in vascular smooth muscle contraction (By similarity).
Cellular Location	Nucleus.
Tissue Location	Expressed in the heart, aorta and bladder (PubMed:12640126, PubMed:20385216). Expressed in smooth muscle cell- containing tissues: stomach, small intestine, colon, lung, placenta and uterus (PubMed:12640126). Very faint expression in prostate and skeletal muscle (PubMed:12640126).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.