10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Myocd Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20988c

Product Information

Application	WB, E
Primary Accession	Q8VIM5
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51044
Calculated MW	101400

Additional Information

Gene ID	214384
Other Names	Myocardin, Basic SAP coiled-coil transcription activator 2, SRF cofactor protein, Myocd, Bsac2, Mycd, Srfcp
Target/Specificity	This Mouse Myocd antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 743-777 amino acids from the C-terminal region of Mouse Myocd.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Myocd Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Myocd
Synonyms	Bsac2, Mycd, Srfcp
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). Positively regulates the transcription of genes involved in vascular smooth muscle contraction (By similarity).
Cellular Location	Nucleus speckle. Note=Nuclear, with a punctate intranuclear pattern with exclusion from nuclei
Tissue Location	Expressed in smooth muscle cell-containing tissues (PubMed:12663482). Expressed in the heart (PubMed:11439182, PubMed:12640126, PubMed:12663482, PubMed:14645532, PubMed:20385216) Expressed in the aorta and bladder (PubMed:12640126, PubMed:12663482, PubMed:20385216). Weakly expression in the lung, testis and kidney (PubMed:14645532). Weakly expressed in the stomach (PubMed:12640126, PubMed:12663482). Weakly expressed in the intestine and colon (PubMed:12663482). [Isoform 3]: Predominantly expressed in cardiac muscle. [Isoform 5]: Predominantly expressed in smooth muscle cell-rich tissues.

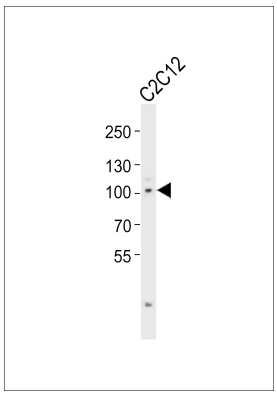
Background

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). Isoform 1 mediates the cardiac transcription factor MEF2C-dependent transcription. Isoform 1 and isoform 3 are more active than isoform 2 and isoform 4 in stimulating cardiac muscle promoters.

References

Wang D.-Z.,et al.Cell 105:851-862(2001).
Wang D.-Z.,et al.Proc. Natl. Acad. Sci. U.S.A. 99:14855-14860(2002).
Ueyama T.,et al.Mol. Cell. Biol. 23:9222-9232(2003).
Sawada T.,et al.Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
Du K.L.,et al.Mol. Cell. Biol. 23:2425-2437(2003).

Images



Western blot analysis of lysate from mouse C2C12 cell line, using Myocd Antibody (C-term)(Cat. #AP20988c). AP20988c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

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