

Mouse Myocd Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP20988c

Specification

Mouse Myocd Blocking Peptide (C-term) - Product Information

Primary Accession

[Q8VIM5](#)

Other Accession

[Q8R5I7](#), [Q7YR76](#), [Q8IZO8](#)**Mouse Myocd Blocking Peptide (C-term) - Additional Information**

Gene ID 214384

Other Names

Myocardin, Basic SAP coiled-coil transcription activator 2, SRF cofactor protein, Myocd, Bsac2, Mycd, Srfcp

Target/Specificity

The synthetic peptide sequence is selected from aa 743-757 of HUMAN Myocd

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Myocd Blocking Peptide (C-term) - 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:14645532, PubMed:12640126, PubMed:12663482, 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.

Mouse Myocd Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

Mouse Myocd Blocking Peptide (C-term) - Images

Mouse Myocd Blocking Peptide (C-term) - 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.

Mouse Myocd Blocking Peptide (C-term) - 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).