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

MDFI Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5698c

Specification

MDFI Antibody (Center) Blocking peptide - Product Information

Primary Accession	Q99750
Other Accession	NP_005577.1

MDFI Antibody (Center) Blocking peptide - Additional Information

Gene ID 4188

Other Names
MyoD family inhibitor, Myogenic repressor I-mf, MDFI

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.

MDFI Antibody (Center) Blocking peptide - Protein Information

Name MDFI

Function
Inhibits the transactivation activity of the Myod family of myogenic factors and represses myogenesis. Acts by associating with Myod family members and retaining them in the cytoplasm by masking their nuclear localization signals. Can also interfere with the DNA- binding activity of Myod family members. Plays an important role in trophoblast and chondrogenic differentiation. Regulates the transcriptional activity of TCF7L1/TCF3 by interacting directly with TCF7L1/TCF3 and preventing it from binding DNA. Binds to the axin complex, resulting in an increase in the level of free beta-catenin. Affects axin regulation of the WNT and JNK signaling pathways (By similarity).

Cellular Location
Nucleus. Cytoplasm.

MDFI Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

MDFI Antibody (Center) Blocking peptide - Images

MDFI Antibody (Center) Blocking peptide - Background

This protein is a transcription factor that negativelyregulates other myogenic family proteins. Studies of the mousehomolog, I-mf, show that it interferes with myogenic factorfunction by masking nuclear localization signals and preventing DNAbinding. Knockout mouse studies show defects in the formation ofvertebrae and ribs that also involve cartilage formation in thesestructures.

MDFI Antibody (Center) Blocking peptide - References

Snider, L., et al. Mol. Cell. Biol. 21(5):1866-1873(2001)Kraut, N., et al. EMBO J. 17(21):6276-6288(1998)Kraut, N. Mamm. Genome 8(8):618-619(1997)Chen, C.M., et al. Cell 86(5):731-741(1996)