

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

MDFI Antibody (Center) Blocking peptide - Product Information

Primary Accession [O99750](#)
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 negatively regulates other myogenic family proteins. Studies of the mouse homolog, I-mf, show that it interferes with myogenic factor function by masking nuclear localization signals and preventing DNA binding. Knockout mouse studies show defects in the formation of vertebrae and ribs that also involve cartilage formation in these structures.

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)