MDFI Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MDFI, Monoclonal Antibody
Full Product Name	MDFI (MyoD Family Inhibitor, Myogenic Repressor I-mf) (MaxLight 750)
Product Gene Name	anti-MDFI antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3B4
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MDFI.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	27kDa
OMIM	604971
3D Structure	ModBase 3D Structure for Q99750
Immunogen	Partial recombinant corresponding to aa33-110 from human MDFI (NP_005577) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PGLEVVTGSTHPAEAAPEEGSLEEAATPMPQGNGPGIPQGLDSTDLDVPTEAVTCQPQGNPLGCTPLLPNDSGHPSEL
Conjugate	MaxLight750
Product Categories/Family for anti-MDFI antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-MDFI antibody	FLISA, Western Blot (WB)
Application Notes for anti-MDFI antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MDFI antibody	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.
Other Notes	Small volumes of anti-MDFI antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for MDFI purchase	MBS6233824 is an antibody targeting MDFI. Also known as MDFI (MyoD Family Inhibitor, Myogenic Repressor I-mf) (MaxLight 750). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MDFI. It may not necessarily be applicable to this product.

NCBI GI #	5031905
NCBI GeneID	4188
NCBI Accession #	NP_005577
UniProt Primary Accession #	Q99750
UniProt Related Accession #	Q99750
GenBank Nucleotide #	NM_005586
NCBI Official Full Name	myoD family inhibitor isoform 1
NCBI Official Synonym Full Names	MyoD family inhibitor
NCBI Official Symbol	MDFI
NCBI Official Synonym Symbols	I-MF; I-mfa
UniProt Protein Name	MyoD family inhibitor
UniProt Synonym Protein Names	Myogenic repressor I-mf
Protein Family	MyoD family inhibitor
UniProt Gene Name	MDFI
UniProt Entry Name	MDFI_HUMAN
NCBI Protein Information	myoD family inhibitor
NCBI Summary for MDFI	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. [provided by RefSeq, Jul 2008]
UniProt Comments for MDFI	MDFI: 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. Belongs to the MDFI family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 6p21 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; transcription factor binding Biological Process: embryonic development; cytoplasmic sequestering of transcription factor; negative regulation of Wnt receptor signaling pathway; dorsal/ventral axis specification; negative regulation of transcription from RNA polymerase II promoter; negative regulation of DNA binding; activation of JNK activity; embryonic skeletal morphogenesis
Research Articles on MDFI	**1.** MDFI was significantly hypermethylated in colorectal cancer tissues when compared with adjacent normal colorectal tissues.

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