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MDFI Rabbit pAb

Catalog # AP98123

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q99750
Other Accession	Q99750
Reactivity	Human
Predicted	Rat, Pig, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25029
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MDFI
Epitope Specificity	101-200/246
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the MDFI family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	4188
Other Names	I-MF; I-mfa; MDFI_HUMAN; MDFI; Myogenic repressor I-mf; MDFI_MOUSE; MyoD family inhibitor; inhibitor of MyoD family a
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MDFI

Function	Inhibits the transactivation activity of the Myod family of myogenic factors and represses myogenesis (By similarity). Acts by associating with Myod family members and retaining them in the cytoplasm by masking their nuclear localization signals (By similarity). Can also interfere with the DNA-binding activity of Myod family members (By similarity). Plays an important role in trophoblast and chondrogenic differentiation (By similarity). Regulates the transcriptional activity of TCF7L1/TCF3 by interacting directly with TCF7L1/TCF3 and preventing it from binding DNA (By similarity). Binds to the axin complex, resulting in an increase in the level of free beta-catenin (By similarity). Affects axin regulation of the WNT and JNK signaling pathways (By similarity). Regulates the activity of mechanosensitive Piezo channel (PubMed:37590348).
Cellular Location	Nucleus. Cytoplasm {ECO:0000250|UniProtKB:P70331}

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