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MEF2B Rabbit pAb

Catalog # AP99222

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q02080
Other Accession	Q02080
Predicted	Rat, Pig, Human, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38639
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MEF2B
Epitope Specificity	1-100/365
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 MEF2 family.Contains 1 MADS-box domain.Contains 1 Mef2-type DNA-binding domain.
SUBUNIT	Interacts with HDAC7 (By similarity). Heterodimer.Interacts with HDAC9.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The myocyte enhancer factor-2 (MEF-2) family of transcription factors associate with co-repessors or co-activators to regulate development and function of T cells, neuronal cells, and muscle cells. Four family members, termed MEF-2A, -2B, -2C, and -2D, arise from alternatively spliced transcripts. These members bind as homo- and heterodimers to the MEF-2 site in the promoter region of affected genes. Differential regulation in the expression of the four transcripts implies functional distinction for each during embryogenesis and development. The process of differentiation from mesodermal precursor cells to myoblasts has led to the discovery of a variety of tissue-specific factors that regulate muscle gene expression. The myogenic basic helix-loop-helix proteins, including MyoD, myogenin, Myf-5, and MRF4, are one class of identified factors. The MEF-2 family represents a second class of DNA binding regulatory proteins. Each of these proteins binds to the MEF-2 target DNA sequence present in the regulatory regions of many muscle-specific genes.

Additional Information

Gene ID	100271849;4207
Other Names	LOC729991-MEF2B; MEF2B; MEF2BNB-MEF2B; RSRFR2; MEF2B_HUMAN; Serum response factor-like protein 2; XMEF2; MEF2B_MOUSE; myocyte enhancer factor 2B
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-

	500,ELISA=1:5000-10000
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	MEF2B
Synonyms	XMEF2
Function	Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific genes. Activates transcription via this element. May be involved in muscle-specific and/or growth factor-related transcription.
Cellular Location	Nucleus.
Tissue Location	Expressed in skeletal and cardiac muscle and brain.

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