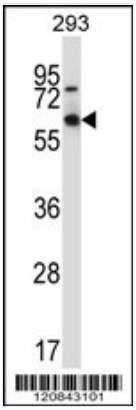
MEF2D Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MEF2D, Polyclonal Antibody
Full Product Name	MEF2D Antibody (Center)
Product Gene Name	anti-MEF2D antibody
Product Synonym Names	Myocyte-specific enhancer factor 2D; MEF2D
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This MEF2D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 251-279 amino acids from the Central region of human MEF2D.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	MEF2D peptide (MBS9220536) is used for blocking the activity of MEF2D antibody (MBS9210865)
Molecular Weight	55938
Immunogen Sequence Positions	251-279
OMIM	600663
3D Structure	ModBase 3D Structure for Q14814
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-MEF2D antibody	Cardiovascular; Neuroscience
Applications Tested/Suitable for anti-MEF2D antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-MEF2D antibody	WB~~1:1000
Related Product Information for anti-MEF2D antibody	MEF2D is a transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific, growth factor-and stress-induced genes. Mediates cellular functions not only in skeletal and cardiac muscle development, but also in neuronal differentiation and survival. Plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK signaling in muscle-specific and/or growth factor-related transcription. Plays a critical role in the regulation of neuronal apoptosis (By similarity).

Product References and Citations for anti-MEF2D antibody	Jablonski, K.A., et al. Diabetes 59(10):2672-2681(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Aude-Garcia, C., et al. Biochem. J. 430(2):237-244(2010) Czubryt, M.P., et al. J. Biol. Chem. 285(22):16942-16950(2010) Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010)
Other Notes	Small volumes of anti-MEF2D 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 MEF2D purchase	MBS9210865 is an antibody targeting MEF2D. Also known as MEF2D Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MEF2D antibody
MEF2D Antibody (Center) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the MEF2D antibody detected the MEF2D protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEF2D. It may not necessarily be applicable to this product.

NCBI GI #	410442515
NCBI GeneID	4209
NCBI Accession #	NP_001258558.1
NCBI Related Accession #	NP_005911.1
UniProt Primary Accession #	Q14814
UniProt Secondary Accession #	Q14815; Q5T9U5; Q5T9U6; D3DVC0
UniProt Related Accession #	Q14814
GenBank Nucleotide #	NM_001271629.1
NCBI Official Full Name	myocyte-specific enhancer factor 2D isoform 2
NCBI Official Synonym Full Names	myocyte enhancer factor 2D
NCBI Official Symbol	MEF2D
UniProt Protein Name	Myocyte-specific enhancer factor 2D
Protein Family	Myocyte-specific enhancer factor
UniProt Gene Name	MEF2D
UniProt Entry Name	MEF2D_HUMAN
NCBI Protein Information	myocyte-specific enhancer factor 2D

NCBI Summary for MEF2D	This gene is a member of the myocyte-specific enhancer factor 2 (MEF2) family of transcription factors. Members of this family are involved in control of muscle and neuronal cell differentiation and development, and are regulated by class II histone deacetylases. Fusions of the encoded protein with Deleted in Azoospermia-Associated Protein 1 (DAZAP1) due to a translocation have been found in an acute lymphoblastic leukemia cell line, suggesting a role in leukemogenesis. The encoded protein may also be involved in Parkinson disease and myotonic dystrophy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2012]
UniProt Comments for MEF2D	MEF2D: transcription factor which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. May be involved in muscle-specific and/or growth factor-related transcription. Six splice-variant isoforms have been described. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 1q12-q23 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; nucleus Molecular Function: protein dimerization activity; protein binding; transcription activator binding; histone deacetylase binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; adult heart development; osteoblast differentiation; nervous system development; muscle development; apoptosis; chondrocyte differentiation; positive regulation of transcription from RNA polymerase II promoter; endochondral ossification
Research Articles on MEF2D	**1.** MEF2D suppression was shown to decrease the proliferation of osteosarcoma cells.
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