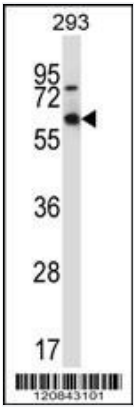
MEF2D Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MEF2D, Polyclonal Antibody
Full Product Name	MEF2D, ID (MEF2D, Myocyte-specific enhancer factor 2D) (FITC)
Product Gene Name	anti-MEF2D antibody
Product Synonym Names	MEF2D; Myocyte-specific enhancer factor 2D
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
OMIM	600663
3D Structure	ModBase 3D Structure for Q14814
Immunogen	MEF2D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 250-279 amino acids from the Central region of human MEF2D.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MEF2D antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-MEF2D antibody	Western Blot (WB), FLISA
Application Notes for anti-MEF2D antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
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	MBS6320103 is an antibody targeting MEF2D. Also known as MEF2D, ID (MEF2D, Myocyte-specific enhancer factor 2D) (FITC). 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 #	5174545
NCBI GeneID	4209
NCBI Accession #	NP_005911.1
UniProt Primary Accession #	Q14814
UniProt Related Accession #	Q14814
GenBank Nucleotide #	NP_005911.1
NCBI Official Full Name	myocyte-specific enhancer factor 2D isoform 1
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: Transcription factor; DNA-binding 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 Disruption Promotes CD8+ T-Cell- Mediated Antitumor Immunity That Suppresses Hepatocellular Carcinoma Growth. MEF2D Attenuates Antitumor Immunity by Transactivating Programmed Cell Death 1 Ligand 1 Under Interferon Gamma Stimulation in Hepatocellular Carcinoma.
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