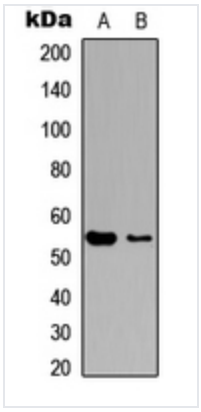
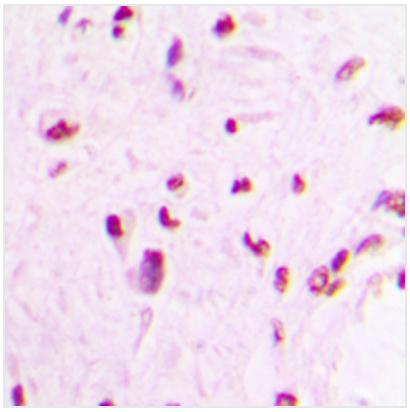
MEF2C Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

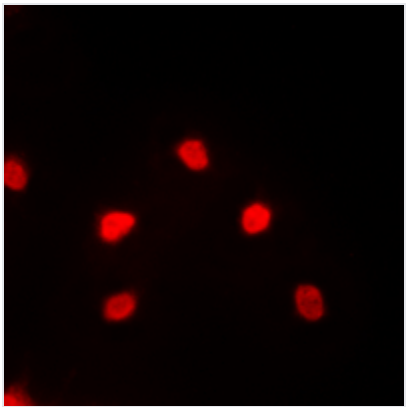
Product Name	MEF2C, Polyclonal Antibody
Full Product Name	Rabbit anti-MEF2C Antibody
Product Gene Name	anti-MEF2C antibody
Product Synonym Names	Myocyte-specific enhancer factor 2C
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Pig, Zebrafish
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	51,221 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (88014058..88199922, complement). Location: 5q14
OMIM	600662
3D Structure	ModBase 3D Structure for Q06413
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human MEF2C. The exact sequence is proprietary.
Product Categories/Family for anti-MEF2C antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-MEF2C antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochemistry (IC), Chromatin Immunoprecipitation (ChIP)
Application Notes for anti-MEF2C antibody	WB: 1:500-1:1000 IHC: 1:100-1:200 IF:IC: 1:100-1:500 ChIP: Use at an assay dependent concentration
Related Product Information for anti-MEF2C antibody	MBS4512684 is an antibody targeting MEF2C. Also known as Rabbit anti-MEF2C Antibody. Reactive in Human, Mouse, Pig, Zebrafish. Host: Rabbit.
Other Notes	Small volumes of anti-MEF2C 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.



Western Blot (WB) of anti-MEF2C antibody
Western blot analysis of MEF2C expression in HeLa (A), NIH3T3 (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-MEF2C antibody
Immunohistochemical analysis of MEF2C staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-MEF2C antibody
Immunofluorescent analysis of MEF2C staining in PC12 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEF2C. It may not necessarily be applicable to this product.

NCBI GI #	196114945
NCBI GeneID	4208
NCBI Accession #	NP_001124477.1
UniProt Primary Accession #	Q06413
UniProt Secondary Accession #	Q8CFN5
UniProt Related Accession #	Q06413
GenBank Nucleotide #	NM_001131005.2
NCBI Official Full Name	myocyte-specific enhancer factor 2C isoform 2
NCBI Official Synonym Full Names	myocyte enhancer factor 2C
NCBI Official Symbol	MEF2C

NCBI Official Synonym Symbols	DEL5q14.3; C5DELq14.3
UniProt Protein Name	Myocyte-specific enhancer factor 2C
Protein Family	Myocyte-specific enhancer factor
UniProt Gene Name	MEF2C
UniProt Entry Name	MEF2C_HUMAN
NCBI Protein Information	myocyte-specific enhancer factor 2C; MADS box transcription enhancer factor 2, polypeptide C
NCBI Summary for MEF2C	This locus encodes a member of the MADS box transcription enhancer factor 2 (MEF2) family of proteins, which play a role in myogenesis. The encoded protein, MEF2 polypeptide C, has both trans-activating and DNA binding activities. This protein may play a role in maintaining the differentiated state of muscle cells. Mutations and deletions at this locus have been associated with severe mental retardation, stereotypic movements, epilepsy, and cerebral malformation. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2010]
UniProt Comments for MEF2C	MEF2C: transcription factor of the MADS family which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. May be involved in myogenesis, neurogenesis and in the development of cortical architecture. Three splice-variant isoforms have been described. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 5q14.3 Cellular Component: nucleoplasm; protein complex; intracellular membrane-bound organelle; cytoplasm; nuclear speck; nucleus; cytosol Molecular Function: protein binding; miRNA binding; transcription activator binding; DNA binding; AT DNA binding; protein heterodimerization activity; histone deacetylase binding; chromatin binding; transcription factor activity Biological Process: cardiac muscle hypertrophy; muscle development; nerve growth factor receptor signaling pathway; positive regulation of transcription, DNA-dependent; heart development; regulation of neurotransmitter secretion; stress-activated MAPK cascade; regulation of synaptic plasticity; toll-like receptor 3 signaling pathway; toll-like receptor 5 signaling pathway; neuron differentiation; positive regulation of MAP kinase activity; B cell receptor signaling pathway; regulation of neuron apoptosis; negative regulation of ossification; positive regulation of B cell proliferation; chondrocyte differentiation; negative regulation of neuron apoptosis; toll-like receptor 4 signaling pathway; positive regulation of cardiac muscle cell proliferation; endochondral ossification; nervous system development; skeletal muscle development; monocyte differentiation; response to virus; myotube differentiation; positive regulation of skeletal muscle development; muscle cell fate determination; toll-like receptor 2 signaling pathway; muscle cell differentiation; regulation of synaptogenesis; neuron development; positive regulation of transcription from RNA polymerase II promoter; smooth muscle cell differentiation; toll-like receptor 9 signaling pathway; B cell proliferation; transcription from RNA polymerase II promoter; regulation of synaptic transmission, glutamatergic; apoptosis; neuron migration; ventricular cardiac muscle cell differentiation; regulation of synaptic activity; negative regulation of transcription from RNA polymerase II promoter; palate development; toll-like receptor 10 signaling pathway; learning and/or memory; B cell homeostasis; regulation of transcription, DNA-dependent; melanocyte differentiation; regulation of megakaryocyte differentiation; germinal center formation; neural crest cell differentiation; heart looping; negative regulation of epithelial cell proliferation; blood vessel development; MyD88-independent toll-like receptor signaling pathway; MAPKKK cascade; embryonic viscerocranium morphogenesis; positive regulation of bone mineralization; humoral immune response; regulation of germinal center formation; positive regulation of myoblast differentiation; osteoblast differentiation; MyD88-dependent toll-like receptor signaling pathway; positive regulation of osteoblast differentiation; neuron morphogenesis during differentiation; toll-like receptor signaling pathway; innate immune response; positive regulation of muscle cell differentiation; blood vessel remodeling; platelet formation; regulation of excitatory postsynaptic membrane potential; positive regulation of neuron differentiation Disease: Mental Retardation, Autosomal Dominant 20
Research Articles on MEF2C	**1.** genetic association study in population of 1,012 Han women in China: Data suggest that an SNP in MEF2C (rs1366594) is associated with bone mineral density of lumbar spine and hip joint in aging women.

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