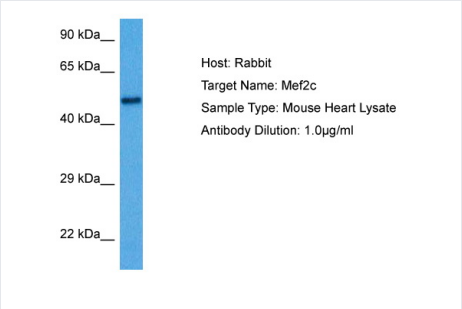
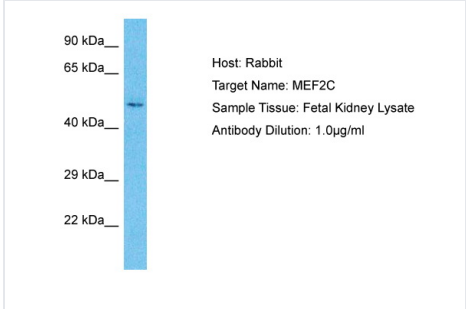
MEF2C Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MEF2C, Polyclonal Antibody
Full Product Name	MEF2C Antibody - middle region
Product Gene Name	anti-MEF2C antibody
Product Synonym Gene Name	MEF2C;
Immunogen Sequence	Synthetic peptide located within the following region: LMGGDLTSGA GTSAGNGYGN PRNSPGLLVS PGNLNKNMQA KSPPPMNLGM
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	MEF2C peptide (MBS3244398) is used for blocking the activity of MEF2C antibody (MBS3219520)
Molecular Weight	45kDa
OMIM	600662
3D Structure	ModBase 3D Structure for Q06413
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of Human MEF2C
Product Categories/Family for anti-MEF2C antibody	Polyclonal; Transcription Factor; Neurobiology; Cardiovascular; Cell Biology; Developmental Biology; Disease Related
Applications Tested/Suitable for anti-MEF2C antibody	Western Blot (WB)
Related Product Information for anti-MEF2C antibody	This is a rabbit polyclonal antibody against MEF2C. It was validated on Western Blot Target Description: 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.
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.
Searchable Terms for MEF2C purchase	MBS3219520 is an antibody targeting MEF2C. Also known as MEF2C Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MEF2C antibody
Host: MouseTarget Name: MEF2CSample Tissue: Mouse HeartAntibody Dilution: 1ug/ml



Western Blot (WB) of anti-MEF2C antibody
Host: RabbitTarget Name: MEF2CSample Type: Fetal Kidney lysatesAntibody Dilution: 1.0ug/ml

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 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
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 cognitive disability, 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.** The previously identified major depressive disorder risk variant rs10514299 in TMEM161B-MEF2C predicts neuronal correlates of reward processing in an alcohol dependence phenotype, possibly explaining part of the shared pathophysiology and comorbidity between the disorders.
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