

Anti-MEF2C Antibody
Catalog # ABO11132**Specification**

Anti-MEF2C Antibody - Product Information

Application	IHC, WB
Primary Accession	Q06413
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Myocyte-specific enhancer factor 2C(MEF2C) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MEF2C Antibody - Additional Information

Gene ID 4208

Other Names

Myocyte-specific enhancer factor 2C, MEF2C

Calculated MW

51221 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Nucleus.

Tissue Specificity

Expressed in brain and skeletal muscle. .

Protein Name

Myocyte-specific enhancer factor 2C

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human MEF2C(406-419aa SRYPQHTRHEAGRS), identical to the related rat sequence.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the MEF2 family.

Anti-MEF2C Antibody - Protein Information

Name MEF2C ([HGNC:6996](#))

Function

Transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. Controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. Enhances transcriptional activation mediated by SOX18. Plays an essential role in hippocampal-dependent learning and memory by suppressing the number of excitatory synapses and thus regulating basal and evoked synaptic transmission. Crucial for normal neuronal development, distribution, and electrical activity in the neocortex. Necessary for proper development of megakaryocytes and platelets and for bone marrow B-lymphopoiesis. Required for B-cell survival and proliferation in response to BCR stimulation, efficient IgG1 antibody responses to T-cell-dependent antigens and for normal induction of germinal center B-cells. May also be involved in neurogenesis and in the development of cortical architecture (By similarity). Isoforms that lack the repressor domain are more active than isoform 1.

Cellular Location

Nucleus {ECO:0000250|UniProtKB:A0A096MJY4}. Cytoplasm, sarcoplasm {ECO:0000250|UniProtKB:A0A096MJY4}

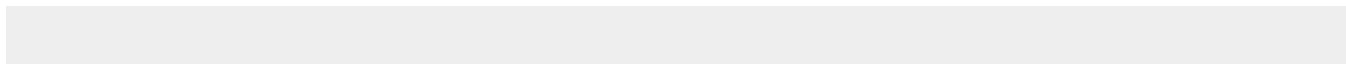
Tissue Location

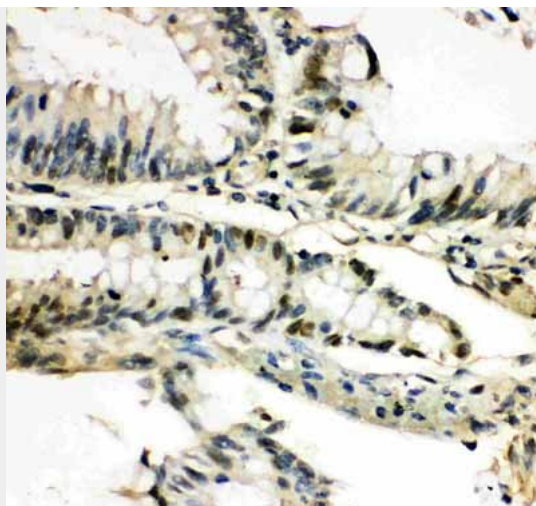
Expressed in brain and skeletal muscle.

Anti-MEF2C Antibody - Protocols

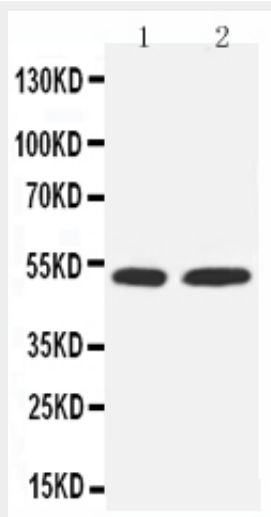
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MEF2C Antibody - Images



Anti-MEF2C antibody, ABO11132, IHC(P)IHC(P): Human Intestine Tissue



Anti-MEF2C antibody, ABO11132, Western blotting Lane 1: Rat Testis Tissue Lysate Lane 2: COLO320 Cell Lysate

Anti-MEF2C Antibody - Background

MEF2C(myocyte enhancer factor 2C) also called "MADS box transcription enhancer factor 2, polypeptide C, is a protein that in humans is encoded by the MEF2C gene. MEF2C is a transcription factor in the Mef2 family. MEF2C, however, is induced late during myogenic differentiation and has a strict tissue-specific pattern of expression not seen in MEF2A or MEF2B. By fluorescence in situ hybridization, the human MEF2C is mapped to chromosome 5q14, a region with homology of synteny to the mouse location. MEF2C may be involved with maintenance of the differentiated state. Both MEF2A and Mef2c programmed similar profiles of gene expression in the heart that included genes involved in extracellular matrix remodeling, ion handling, and metabolism. NCOA2 mediates the coactivation of MEF2C-dependent transcription through interaction with the MADS box domain of MEF2C.