

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

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**Anti-MEF2C Antibody - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">Q06413</a>
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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**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

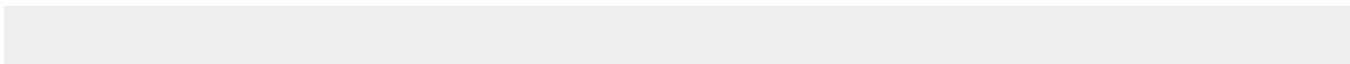
Expressed in brain and skeletal muscle.

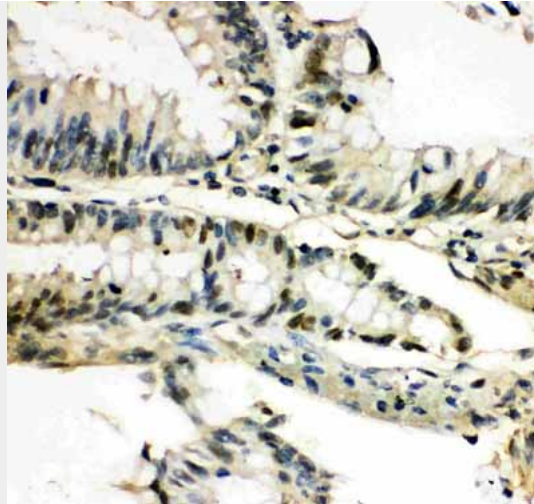
### Anti-MEF2C Antibody - Protocols

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

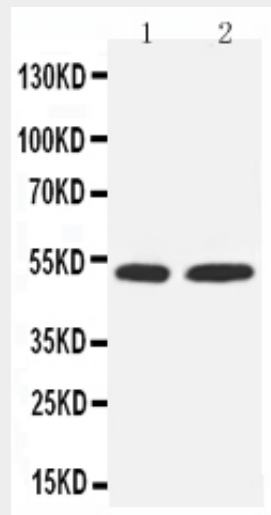
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### 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.