

# MEF2C Polyclonal antibody

Catalog Number: 18291-1-AP

## Basic Information

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|--|---|--|
| <b>Catalog Number:</b><br>18291-1-AP   | <b>GenBank Accession Number:</b><br>NM_002397   | <b>Purification Method:</b><br>Antigen affinity purification       |
| <b>Size:</b><br>150ul , Concentration: 240 µg/ml by Nanodrop and 173 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>4208                   | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:20-1:200 |
| <b>Source:</b><br>Rabbit   | <b>Full Name:</b><br>myocyte enhancer factor 2C |  |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>51 kDa                 |  |
|  | <b>Observed MW:</b><br>51 kDa                   |  |

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : human colon tissue,

IHC : human brain tissue, human kidney tissue, human ovary tissue, human placenta tissue, human spleen tissue, human testis tissue

## Background Information

MEF2C belongs to the MEF2 family. It is a transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. MEF2C controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. It 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. It is crucial for normal neuronal development, distribution, and electrical activity in the neocortex and is necessary for proper development of megakaryocytes and platelets and for bone marrow B lymphopoiesis. This protein is 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. It may also be involved in neurogenesis and in the development of cortical architecture. The immunogen used is peptide from transcription repressor of MEF2C. This antibody can recognize the transcript variant 1, transcript variant 2 and transcript variant 5 of MEF2C.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

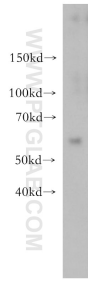
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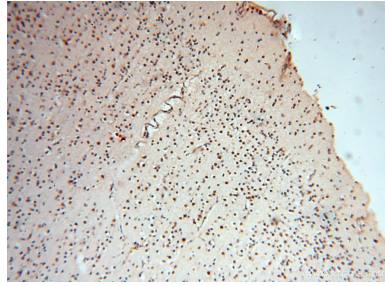
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W: ptglab.com

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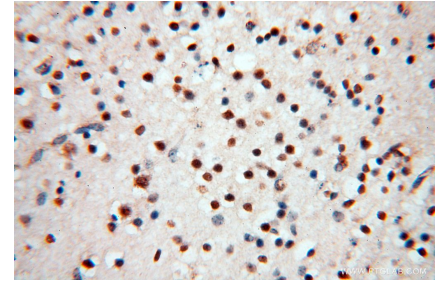
## Selected Validation Data



human colon tissue were subjected to SDS PAGE followed by western blot with 18291-1-AP (MEF2C antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 18291-1-AP (MEF2C antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 18291-1-AP (MEF2C antibody) at dilution of 1:50 (under 40x lens).