

For Research Use Only

# MEF2C Polyclonal antibody

Catalog Number:**20326-1-AP**



## Basic Information

Catalog Number:	BC026341	GenBank Accession Number:	Purification Method:
Size:	4208	GenelD (NCBI):	Antigen affinity purification
150ul , Concentration: 900 ug/ml by Nanodrop and 607 ug/ml by Bradford method using BSA as the standard;	Q06413	UNIPROT ID:	Recommended Dilutions:
Rabbit	myocyte enhancer factor 2C	Full Name:	WB 1:500-1:2000
IgG	469 aa, 51 kDa	Calculated MW:	IHC 1:20-1:200
Immunogen Catalog Number:	45-70 kDa	Observed MW:	IF-P 1:50-1:500
AG13255			

## Applications

Tested Applications:	Positive Controls:
WB, IHC, IF-P, ELISA	WB: HeLa cells, mouse small intestine tissue, mouse testis tissue, rat lymph tissue, SH-SY5Y cells
Species Specificity:	IHC: human heart tissue,
human, mouse, rat	IF-P: mouse brain tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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[PMID: 20221419]. 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[PMID:18599438]. 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[PMID: 21666133]. 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. MEF2C exists some isoforms with MW 50-52 kDa, 47 kDa, and 45 kDa, but modified MEF2C is about 55-66 kDa.

## 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**

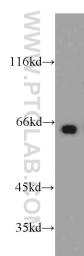
\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
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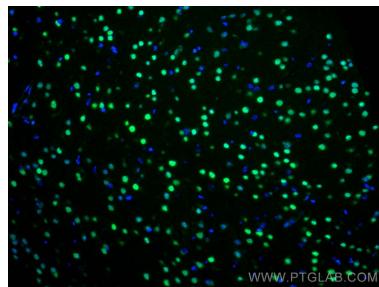
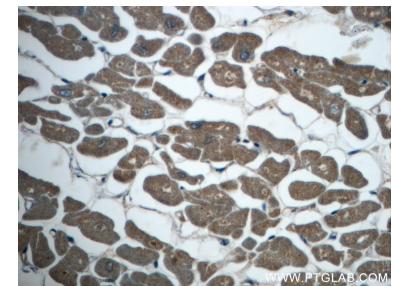
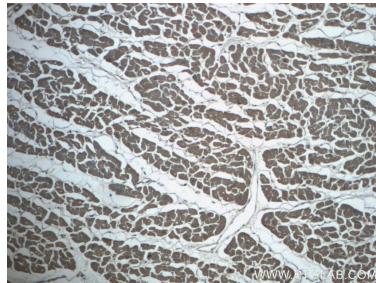
E: proteintech@ptglab.com  
W: ptglab.com

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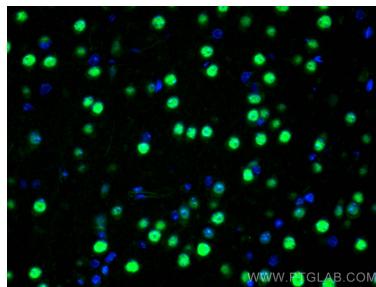
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 20326-1-AP (MEF2C antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using MEF2C antibody (20326-1-AP) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



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