

For Research Use Only

MEF2C Polyclonal antibody

Catalog Number: 16953-1-AP



Basic Information

Catalog Number: 16953-1-AP	GenBank Accession Number: BC026341	Purification Method: Antigen affinity purification
Size: 133 µg/ml	GeneID (NCBI): 4208	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q06413	
Isotype: IgG	Full Name: myocyte enhancer factor 2C	
Immunogen Catalog Number: AG10583	Calculated MW: 469 aa, 51 kDa	
	Observed MW: 45-70 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : human heart tissue, HeLa cells, mouse skeletal muscle tissue, TF-1 cells
Species Specificity: human, mouse, rat	

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 MV 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

For technical support and original validation data for this product please contact:

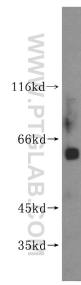
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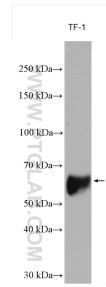
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Selected Validation Data



human heart tissue were subjected to SDS PAGE followed by western blot with 16953-1-AP (MEF2C antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



TF-1 cells were subjected to SDS PAGE followed by western blot with 16953-1-AP (MEF2C antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.