

Anti-MEF2C Antibody

Catalog # AP95943

Product Information

Application	WB, IHC, FC
Primary Accession	Q06413
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	51221

Additional Information

Gene ID	4208
Other Names	Myocyte-specific, enhancer factor 2C
Target/Specificity	Recombinant fusion protein of human MEF2C expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

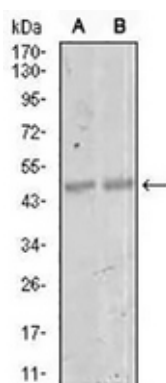
Protein Information

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}

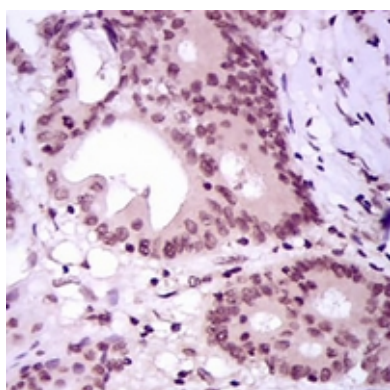
Tissue Location

Expressed in brain and skeletal muscle.

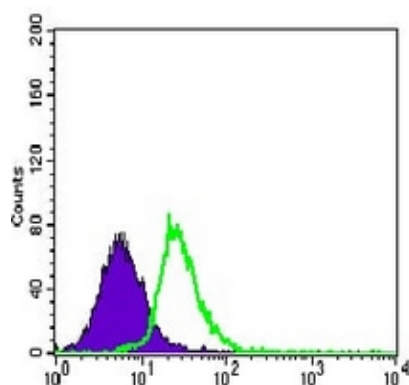
Images



Western blot analysis of MEF2C expression in NIH3T3 (A), 3T3L1 (B) whole cell lysates. (Predicted band size: 51 kD; Observed band size: 50 kD)



Immunohistochemical analysis of MEF2C staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HeLa cells using Anti-MEF2C Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.