



# Anti-MEF2C monoclonal antibody, clone 5C21 (DCABH-774)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse monoclonal to MEF2C
<b>Antigen Description</b>	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. 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). Isoform 3 and isoform 4, which lack the repressor domain, are more active than isoform 1 and isoform 2.
<b>Immunogen</b>	Recombinant full length protein corresponding to Human MEF2C.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	5C21
<b>Purification</b>	This antibody is purified from Mouse ascites fluid by affinity chromatography.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, Flow Cyt, ICC/IF

<b>Positive Control</b>	HEK293T cell lysate transfected with pCMV6-ENTRY MEF2C cDNA; COS7 cells transiently transfected by pCMV6-ENTRY MEF2C; HeLa and Jurkat cells.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 48% PBS, 50% Glycerol, 1% BSA
<b>Preservative</b>	0.02% Sodium Azide
<b>Storage</b>	store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Ship</b>	Shipped at 4°C.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MEF2C myocyte enhancer factor 2C [ Homo sapiens ]</a>
<b>Official Symbol</b>	MEF2C
<b>Synonyms</b>	MEF2C; myocyte enhancer factor 2C; myocyte-specific enhancer factor 2C; MADS box transcription enhancer factor 2, polypeptide C; C5DELq14.3; DEL5q14.3;
<b>Entrez Gene ID</b>	<a href="#">4208</a>
<b>Protein Refseq</b>	<a href="#">NP_001124477</a>
<b>UniProt ID</b>	<a href="#">Q06413</a>
<b>Chromosome Location</b>	5q14
<b>Pathway</b>	Activated TLR4 signalling, organism-specific biosystem; Adipogenesis, organism-specific biosystem; CDO in myogenesis, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ERK/MAPK targets, organism-specific biosystem;
<b>Function</b>	AT DNA binding; DNA binding; DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II core promoter sequence-specific DNA b