MEF2C Polyclonal antibody

Catalog Number:10056-1-AP

Featured Product **40 Publications**

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Antibodies | ELISA kits | Proteins

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Basic Information

Catalog Number:
10056-1-AP

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0020

GenBank Accession Number:
BC156603

GeneID (NCBI):
4208

UNIPROT ID:
Q06413

Full Name:
myocyte enhancer factor 2C

Calculated MW:
51 kDa

Observed MW:
45-70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF 1:50-1:500

Applications

Tested Applications:
FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB, IF, IHC, chIP

Species Specificity:
human, mouse

Cited Species:
human, goat, rat, mouse, pig, bovine

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 : SH-SY5Y cells, mouse colon tissue, mouse brain tissue, mouse heart tissue

IP : SH-SY5Y cells,

IHC : human lymphoma tissue,

IF : HepG2 cells,

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Adrian Fischer	27901111	Sci Rep	WB
Jae-Yeol Joo	26595656	Nat Neurosci	WB
Shichun Tu	29133852	Nat Commun	WB

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
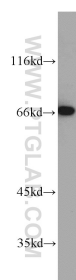Aliquoting is unnecessary for -20˚C storage
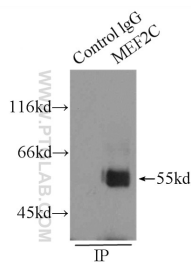
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
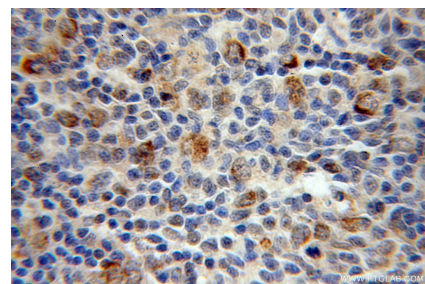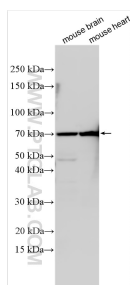
Selected Validation Data

SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 10056-1-AP (MEF2C antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.


IP result of anti-MEF2C (IP:10056-1-AP, 3ug; Detection:10056-1-AP 1:500) with SH-SY5Y cells lysate 2000ug.


Immunohistochemical analysis of paraffin-embedded human lymphoma using 10056-1-AP (MEF2C antibody) at dilution of 1:50 (under 40x lens).

Various lysates were subjected to SDS PAGE followed by western blot with 10056-1-AP (MEF2C antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.
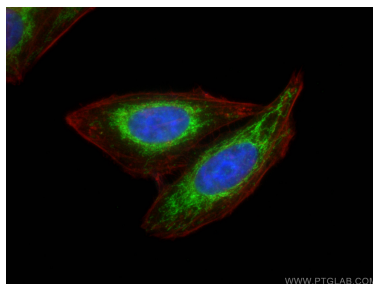
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MEF2C antibody (10056-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).
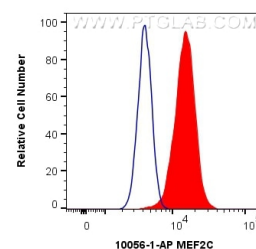
1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human MEF2C (10056-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).