

Rabbit MEF2C Polyclonal Antibody | anti-MEF2C antibody

Anti-MEF2C Antibody

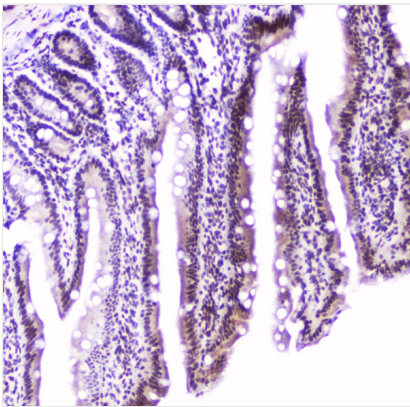
CATALOG # AAA124918	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

MEF2C; Polyclonal Antibody; Anti-MEF2C Antibody; Myocyte-specific enhancer factor 2C; Myocyte enhancer factor 2C; anti-MEF2C antibody

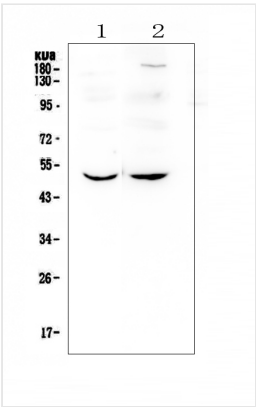
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	465
Applicable Applications for anti-MEF2C antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human MEF2C (DREDHRNE FHSPIGLTRPSPDERESPSVKRMRLSEGWAT).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of MEF2C using anti-MEF2C antibody.MEF2C was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MEF2C antibody.MEF2C was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MEF2C antibody.MEF2C was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MEF2C antibody.MEF2C was detected in paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MEF2C antibody.MEF2C was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MEF2C Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of MEF2C using anti-MEF2C antibody.Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat brain tissue lysates,Lane 2: mouse brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MEF2C antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MEF2C at approximately 51KD. The expected band size for MEF2C is at 51KD.

ADDITIONAL INFORMATION

Related Product Information for anti-MEF2C antibody	Description: Rabbit IgG polyclonal antibody for MEF2C detection. Tested with WB, IHC-P in Human; Mouse; Rat. Background: MEF2C (myocyte enhancer factor 2C), also called MADS box transcription enhancer factor 2, polypeptide C, is a protein that in humans is encoded by the MEF2C gene. MEF2C is a transcription factor in the Mef2 family. MEF2C, however, is induced late during myogenic differentiation and has a strict tissue-specific pattern of expression not seen in MEF2A or MEF2B. By fluorescence in situ hybridization, the human MEF2C is mapped to chromosome 5q14, a region with homology of synteny to the mouse location.MEF2C may be involved with maintenance of the differentiated state. Both MEF2A and Mef2c programmed similar profiles of gene expression in the heart that included genes involved in extracellular matrix remodeling, ion handling, and metabolism. NCOA2 mediates the coactivation of MEF2C-dependent transcription through interaction with the MADS box domain of MEF2C.
References	1. Barbosa, A. C., Kim. M.-S., Ertunc, M., Adachi, M., Nelson, E. D., McAnally, J., Richardson, J. A., Kavalali, E. T., Monteggia, L. M., Bassel-Duby, R., Olson, E. N. MEF2C, a transcription factor that facilitates learning and memory by negative regulation of synapse numbers and function. Proc. Nat. Acad. Sci. 105: 9391-9396, 2008. 2. Chen, S. L., Dowhan, D. H., Hosking, B. M., Muscat, G. E. O. The steroid receptor coactivator, GRIP-1, is necessary for MEF-2C-dependent gene expression and skeletal muscle differentiation. Genes Dev. 14: 1209-1228, 2000. 3. Krainc, D., Haas, M., Ward, D. C., Lipton, S. A., Bruns, G., Leifer, D. Assignment of human myocyte-specific enhancer binding factor 2C (hMEF2C) to human chromosome 5q14 and evidence that MEF2C is evolutionarily conserved. Genomics 29: 809-811, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	196114945
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NCBI GeneID	4208
NCBI Accession #	NP_001124477.1
NCBI GenBank Nucleotide #	NM_001131005.2
UniProt Accession #	Q06413; C9JMZ0; D7F7N5; F8W7V7
Molecular Weight	50,336 Da
NCBI Official Full Name	myocyte-specific enhancer factor 2C isoform 2
NCBI Official Synonym Full Names	myocyte enhancer factor 2C
NCBI Official Symbol	MEF2C
NCBI Official Synonym Symbols	DEL5q14.3; C5DELq14.3
NCBI Protein Information	myocyte-specific enhancer factor 2C
UniProt Protein Name	Myocyte-specific enhancer factor 2C
UniProt Gene Name	MEF2C

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/mef2c-antibody-immunohistochemistry-western-blot-elisa/124918>