

Anti-MEF2C Antibody Picoband™

Catalog Number: A01131-1

About MEF2C

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.

Overview

Product Name	Anti-MEF2C Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MEF2C Antibody Picoband™ catalog # A01131-1. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q06413

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MEF2C, identical to the related mouse and rat sequences.
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, Mouse, Rat Flow Cytometry, 1-3ug/1x10⁶ cells, Human

Anti-MEF2C Antibody Picoband™ (A01131-1) Images

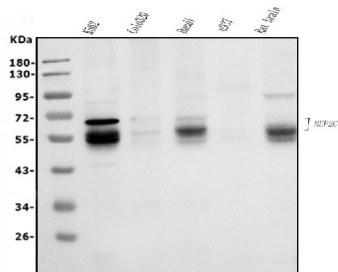


Figure 1. Western blot analysis of MEF2C using anti-MEF2C antibody (A01131-1).

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: human K562 whole cell lysates,
Lane 2: human COLO320 whole cell lysates,
Lane 3: human DAUDI whole cell lysates,
Lane 4: human U937 whole cell lysates,
Lane 5: rat 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 (Catalog # A01131-1) at 0.5 ug/mL overnight at 4°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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MEF2C at approximately 50-65KD. The expected band size for MEF2C is at 50-65KD.

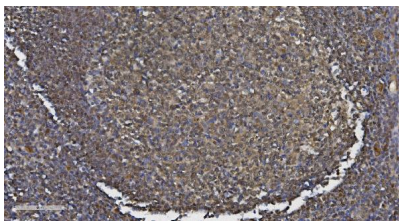


Figure 2. IHC analysis of MEF2C using anti-MEF2C antibody (A01131-1).

MEF2C was detected in paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MEF2C Antibody (A01131-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

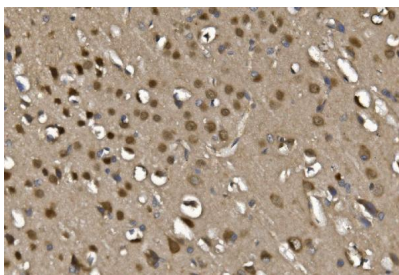
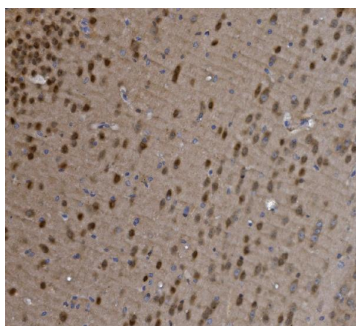


Figure 3. IHC analysis of MEF2C using anti-MEF2C antibody (A01131-1).

MEF2C was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MEF2C Antibody (A01131-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

Figure 4. IHC analysis of MEF2C using anti-MEF2C antibody



(A01131-1). MEF2C was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MEF2C Antibody (A01131-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

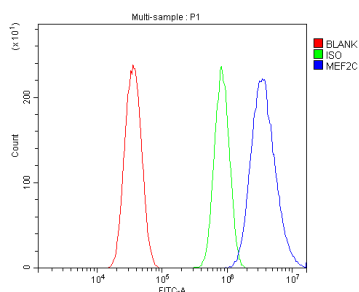


Figure 5. Flow Cytometry analysis of HELA cells using anti-MEF2C antibody (A01131-1).

Overlay histogram showing HELA cells stained with A01131-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MEF2C Antibody (A01131-1, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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