

Human/Mouse MEF2C Antibody

Monoclonal Mouse IgG_{2B} Clone # 681824

Catalog Number: MAB6786

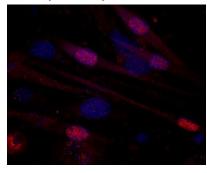
| DESCRIPTION | | | |
|--------------------|--|--|--|
| Species Reactivity | Human/Mouse | | |
| Specificity | Detects human MEF2C in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human SRF is observed. | | |
| Source | Monoclonal Mouse IgG _{2B} Clone # 681824 | | |
| Purification | Protein A or G purified from hybridoma culture supernatant | | |
| Immunogen | E. coli-derived recombinant human MEF2C Ala135-Lys239 Accession # Q06413 | | |
| Formulation | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. | | |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website

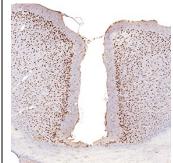
| | Recommended Concentration | Sample |
|----------------------|------------------------------|-----------|
| Immunocytochemistry | 8-25 μg/mL | See Below |
| Immunohistochemistry | 5-25 μg/mL | See Below |

Immunocytochemistry



MEF2C in C2C12 Mouse Cell Line. MEF2C was detected in immersion fixed differentiated C2C12 mouse myoblast cell line using Mouse Anti-Human/Mouse MEF2C Monoclonal Antibody (Catalog # MAB6786) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nucleus of myoblasts. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry



MEF2C in Human Brain. MEF2C was detected in immersion fixed paraffinembedded sections of human brain (cortex) using Mouse Anti-Human/Mouse MEF2C Monoclonal Antibody (Catalog # MAB6786) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal nuclei. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C*

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

MEF2C (myocyte enhancer factor-2C) is a 51 kDa (predicted) protein that is one of four members of the MEF2/MADS (MCM1, Agamous, Deficiens, Serum response) box family of transcription factors. The 473 amino acid (aa) human MEF2C contains a MADS box for dimerization (aa 3-57), a DNA binding domain (aa 58-86), a beta domain (aa 271-278; missing in a 465 aa isoform), a transcriptional repressor (aa 368-399; missing in a 441 aa isoform) and several acetylation and ser/thr phosphorylation sites. Within aa 135-239, human MEF2C shares 95% and 98% aa identity with mouse and rat MEF2C, respectively. MEF2C plays important roles in preferential lymphoid differentiation of hematopoietic precursors, and in neuronal, cardiac and skeletal muscle morphogenesis.

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