

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	<i>E. coli</i> -derived recombinant human MEF2C Ala135-Lys239 Accession # Q06413
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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