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MEF-2B (h4): 293T Lysate: sc-177530

BACKGROUND

The myocyte enhancer factor-2 (MEF-2) family of transcription factors associate with corepressors or co-activators to regulate development and function of T cells, neuronal cells and muscle cells. Four family members, termed MEF-2A, -2B, -2C and -2D, arise from alternatively spliced transcripts. These members bind as homo- and heterodimers to the MEF-2 site in the promoter region of affected genes. Differential regulation in the expression of the four transcripts implies functional distinction for each during embryogenesis and development. The process of differentiation from mesodermal precursor cells to myoblasts has led to the discovery of a variety of tissue-specific factors that regulate muscle gene expression. The myogenic basic helix-loop-helix proteins, including MyoD, myogenin, Myf-5 and MRF4, are one class of identified factors. The MEF-2 family represents a second class of DNA binding regulatory proteins. Each of these proteins binds to the MEF-2 target DNA sequence present in the regulatory regions of many muscle-specific genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MEF2B (human) mapping to 19p13.11.

PRODUCT

MEF-2B (h4): 293T Lysate represents a lysate of human MEF-2B transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

MEF-2B (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive MEF-2B antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.