MEF-2D (H-11): sc-271153

**BACKGROUND**

The myocyte enhancer factor-2 (MEF-2) family of transcription factors associate with co-repressors or co-activators to regulate development and function of T cells, neuronal cells and muscle cells. Four family members arise from alternatively spliced transcripts, termed MEF-2A, -2B, -2C and -2D. 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. A second family of DNA-binding regulatory proteins is the myocyte-specific enhancer factor-2 (MEF-2) family. Each of these proteins binds to the MEF-2 target DNA sequence present in the regulatory regions of many muscle-specific genes.

**CHROMOSOMAL LOCATION**

Genetic locus: MEF2D (human) mapping to 1q22; Mef2d (mouse) mapping to 3 F1.

**SOURCE**

MEF-2D (H-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 441-488 within an internal region of MEF-2D of human origin.

**PRODUCT**

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-271153 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-271153 P, 100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

MEF-2D (H-11) is recommended for detection of MEF-2D of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for MEF-2D siRNA (h): sc-38064, MEF-2D siRNA (m): sc-38065, MEF-2D shRNA Plasmid (h): sc-38064-SH, MEF-2D shRNA Plasmid (m): sc-38065-SH, MEF-2D shRNA (h) Lentiviral Particles: sc-38064-V and MEF-2D shRNA (m) Lentiviral Particles: sc-38065-V.

MEF-2D (H-11) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of MEF-2D: 56 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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