

Datasheet for ABIN7504178

anti-MEF2B antibody**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	MEF2B
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MEF2B antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant full-length human MEF2B protein
Isotype:	IgG2a
Specificity:	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, 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

Product Details

regulatory proteins. Each of these proteins binds to the MEF-2 target DNA sequence present in the regulatory regions of many muscle-specific genes.

Cross-Reactivity (Details): Human.

Purification: 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target: MEF2B

Alternative Name: MEF2B ([MEF2B Products](#))

Background: MADS box transcription enhancer factor 2, MDS1 EVI1, Mef2b, Myocyte enhancer factor 2B, Myocyte-specific enhancer factor 2B, PRDM3, RSRFR2, Serum response factor like protein 2, XMEF2,MEF2B (Transcriptional Activator)
Cellular localisation: Nucleus.

Molecular Weight: 160kDa

Gene ID: 100271849, 4207, 153629

UniProt: [Q02080](#)

Application Details

Application Notes: Positive Control: HeLa or Ramos cells.
Known Application: Immunoprecipitation (1-2 µg per 100-500 µg of total protein), Western Blot (1-2 µg/mL),Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), ,Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

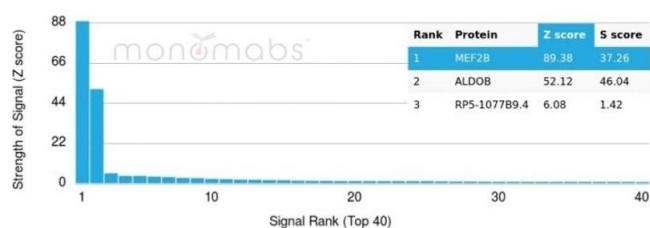
Storage: 4 °C,-80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.

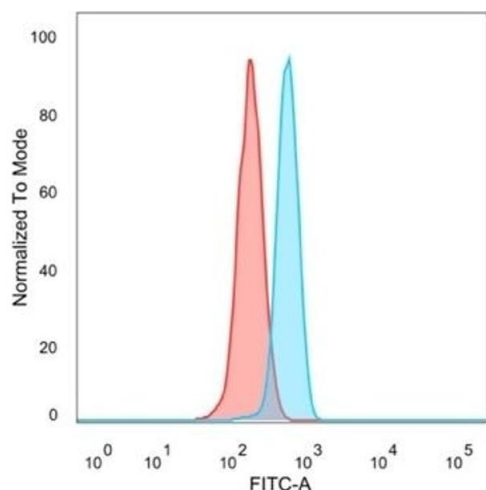
Expiry Date: 24 months

Images



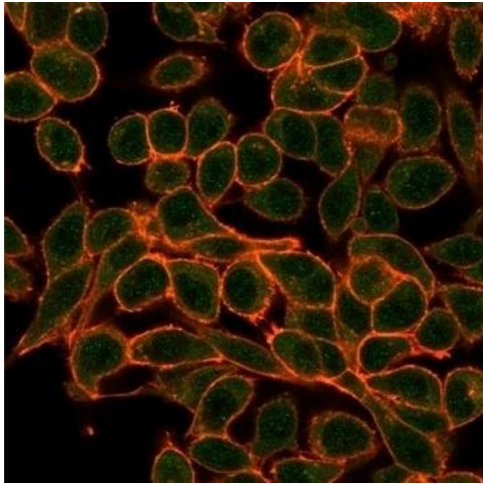
Protein Array

Image 1. Analysis of Protein Array containing more than 19,000 full-length human proteins using MEF2B-Monospecific Mouse Monoclonal Antibody (PCRP-MEF2B-2F9). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometry

Image 2. Flow cytometric analysis of PFA-fixed HeLa cells. MEF2B Mouse Monoclonal Antibody (PCRP-MEF2B-2F9) followed by goat anti-mouse IgG-CF488 (blue), unstained cells (red).



Immunofluorescence

Image 3. Immunofluorescence analysis of PFA-fixed HeLa cells. MEF2B Mouse Monoclonal Antibody (PCR-P-MEF2B-2F9) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin.