MEF2D / Myocyte enhancer factor 2D (Transcription Factor) Antibody

Mouse Monoclonal Antibody [Clone PCRP-MEF2D-3A4]

Catalog No	Format	Size
4209-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4209-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4209-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

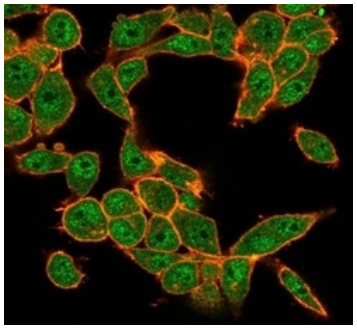
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

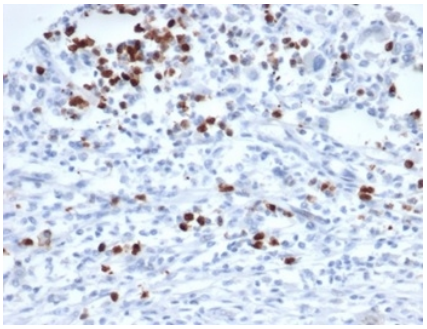
Clone	PCRP-MEF2D-3A4
Gene Name	MEF2D
Immunogen	Recombinant full-length human MEF2D protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b
Mol. Weight of Antigen	55.94kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	HeLa cells.

**Optimal dilution for a specific application should be determined.*

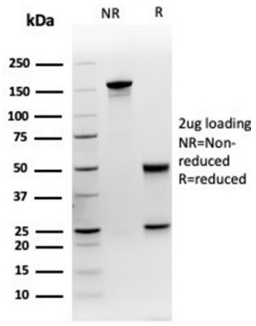
Product Images for MEF2D / Myocyte enhancer factor 2D (Transcription Factor) Antibody



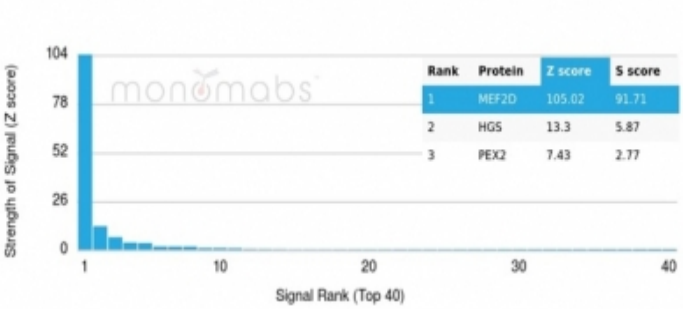
Immunofluorescence Analysis of PFA-fixed HeLa cells stained using MEF2D Mouse Monoclonal Antibody (PCRP-MEF2D-3A4) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



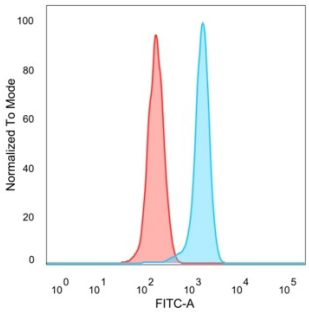
Formalin-fixed, paraffin-embedded human rhabdomyosarcoma stained with MEF2D Mouse Monoclonal Antibody (PCRP-MEF2D-3A4). HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



SDS-PAGE Analysis MEF2D Mouse Monoclonal Antibody (PCRP-MEF2D-3A4). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing MEF2D-Monospecific Mouse Monoclonal Antibody (PCRP-MEF2D-3A4). 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 HuProtTM 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 HuProtTM 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 cytometric analysis of PFA-fixed HeLa cells. MEF2D Mouse MonoclonalAntibody (PCRP-MEF2D-3A4) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

Specificity & Comments

The myocyte enhancer factor-2 (MEF-2) family of transcription factors associate with co-repessors 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 duing 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.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Developmental Biology, Nuclear Marker, Signal Transduction

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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