Myogenin / Myf-4 (Skeletal Muscle Marker) (Transcription Factor) Antibody

Mouse Monoclonal Antibody [Clone PCRP-MYOG-1C5]

Catalog No	Format	Size
4656-MSM17-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4656-MSM17-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4656-MSM17-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

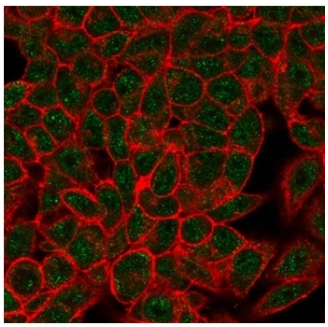
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

Product Details

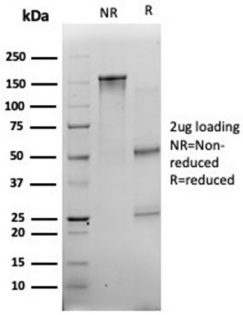
Clone	PCRP-MYOG-1C5
Gene Name	MYOG
Immunogen	Human myogenin recombinant protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	34kDa
Cellular Localization	Nucleus
Species Reactivity	Human, Mouse, Rat
Positive Control	Rh-30 or HeLa cells. Human skeletal muscle or rhabdomyosarcoma.

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

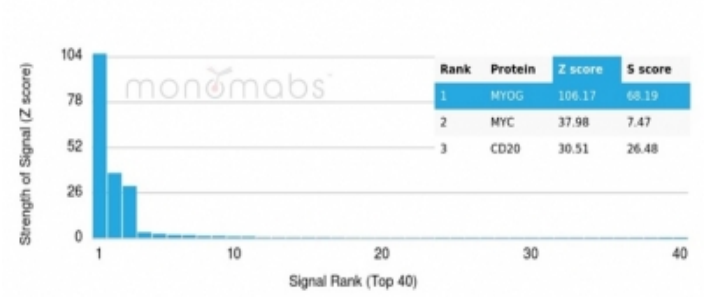
Product Images for Myogenin / Myf-4 (Skeletal Muscle Marker) (Transcription Factor) Antibody



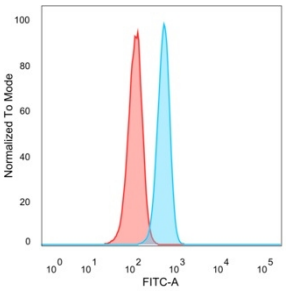
Immunofluorescence Analysis of PFA-fixed HeLa cells stained using Myogenin Mouse Monoclonal Antibody (PCRP-MYOG-1C5) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



Immunofluorescence Analysis of PFA-fixed HeLa cells stained using Myogenin Mouse Monoclonal Antibody (PCRP-MYOG-1C5) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Myogenin Mouse Monoclonal Antibody (PCRP-MYOG-1C5). 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. Myogenin Mouse Monoclonal Antibody (PCRP-MYOG-1C5) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

Specificity & Comments

Myogenin is a member of the MyoD family of myogenic basic helix-loop-helix (bHLH) transcription factors that also includes MyoD, Myf-5, and MRF4 (also known as herculinor Myf-6). MyoD family members are expressed exclusively in skeletal muscle and play a key role in activating myogenesis by binding to enhancer sequences of muscle-specific genes. The regulatory domain of MyoD is approximately 70 amino acids in length and includes both a basic DNA binding motif and a bHLH dimerization motif.MyoD family members share about 80% amino acid homology in their bHLH motifs.Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms tumor.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% 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, Mesenchymal Stem Cell Differentiation, Nuclear Marker

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.