

## Anti-Myogenin Antibody [PCRP-MYOG-1C5] (A277721)

### Specifications:

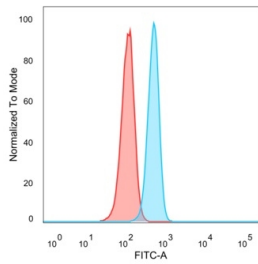
Name:	Anti-Myogenin Antibody [PCRP-MYOG-1C5]
Description:	Mouse monoclonal [PCRP-MYOG-1C5] antibody to Myogenin.
Specificity:	Myogenin is a member of the MyoD family of myogenic basic helix-loop-helix (bHLH) transcription factors that also includes MyoD, Myf-5, and MRF4 (also known as herculinor Myf-6). 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.
Applications:	ELISA, IP, Flow Cytometry, IF, WB
Recommended Dilutions:	IP: 1-2 $\mu$ g / 100-500 $\mu$ g proteins, Flow Cytometry: 1-2 $\mu$ g/million cells, IF: 1-2 $\mu$ g/ml, WB: 1-2 $\mu$ g/ml
Reactivity:	Human, Mouse, Rat
Immunogen:	Recombinant full-length human Myogenin protein.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	PCRP-MYOG-1C5
Isotype:	IgG2b
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 $\mu$ g/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-Myogenin Antibody [PCRP-MYOG-1C5] - BSA and Azide free (A278309).

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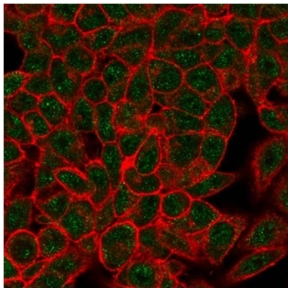
## Specifications continued:

**Disclaimer:** This product is for research use only. It is not intended for diagnostic or therapeutic use.

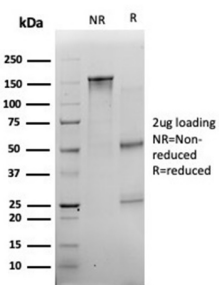
## Images:



Flow cytometric analysis of PFA-fixed HeLa cells using Anti-Myogenin Antibody [PCRP-MYOG-1C5] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Isotype Control (Red).



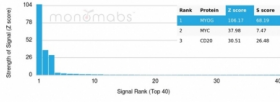
Immunofluorescent analysis of PFA-fixed HeLa cells stained with Anti-Myogenin Antibody [PCRP-MYOG-1C5] followed by Goat Anti-Mouse IgG (CF® 488) (Green). CF® 640A Phalloidin (Red).



SDS-PAGE analysis of Anti-Myogenin Antibody [PCRP-MYOG-1C5] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

# Anti-Myogenin Antibody [PCR-P-MYOG-1C5] (A277721)

Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-Myogenin Antibody [PCR-P-MYOG-1C5]. Z-Score 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 be 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.