

## NEUROD2 (Neurogenic Differentiation 2) (Transcription Factor) Antibody

Mouse Monoclonal Antibody [Clone PCR-P-NEUROD2-1G1]

Catalog No	Format	Size
4761-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4761-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4761-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

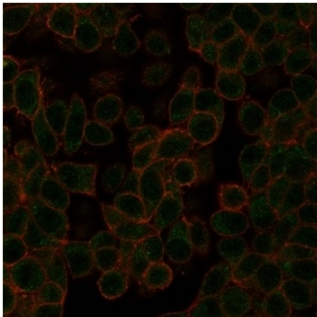
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

### Product Details

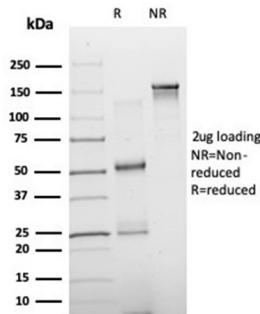
<b>Clone</b>	PCR-P-NEUROD2-1G1
<b>Gene Name</b>	NEUROD2
<b>Immunogen</b>	Recombinant full-length human NEUROD2 protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	~41kDa
<b>Cellular Localization</b>	Nucleus
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	HeLa cells. Human brain.

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

### Product Images for NEUROD2 (Neurogenic Differentiation 2) (Transcription Factor) Antibody



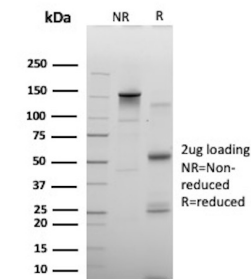
Immunofluorescence Analysis of PFA-fixed HeLa cells stained using NEUROD2 Mouse Monoclonal Antibody (PCR-P-NEUROD2-1G1) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



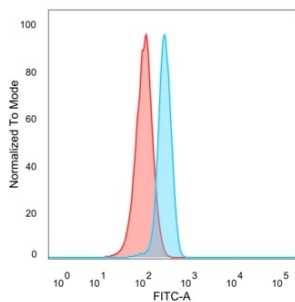
Immunofluorescence Analysis of PFA-fixed HeLa cells stained using NEUROD2 Mouse Monoclonal Antibody (PCR-P-NEUROD2-1G1) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using NEUROD2 Mouse Monoclonal Antibody (PCRP-NEUROD2-1G1). 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 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.



SDS-PAGE Analysis of Purified Neurogenic differentiation factor 2 Mouse Monoclonal Antibody (PCRP-NEUROD2-1G1). Confirmation of Purity and Integrity of Antibody.



Flow cytometric analysis of PFA-fixed HeLa cells. NEUROD2 Mouse Monoclonal Antibody (PCRP-NEUROD2-1G1) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

### Specificity & Comments

Members of the myogenic determination family are basic helix-loop-helix (bHLH) proteins that can be separated into two classes, both of which work together to activate DNA transcription. Class A proteins include the ubiquitously expressed E-box binding factors, namely E2A, ITF-2 and HEB, while class B proteins, such as MyoD, myogenin and Neuro D (?), are transiently expressed and exhibit a much more limited tissue distribution. Working in opposition to these positively acting factors are a specialized group of basic helix-loop-helix(bHLH) transcription factors that function as dominant negative regulators and are involved in cell lineage determination and differentiation. Neuro D2 (neurogenic differentiation 2), also known as NDRF, NEUROD2 or bHLHa1, is a 382 amino acid nuclear protein that contains one bHLH domain and functions to induce neurogenic differentiation, playing an important role in the maintenance and determination of cell fate.

### 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.

### 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.