

## Anti-NeuroG3 Antibody [PCRP-NEUROG3-1E10] - BSA and Azide free (A278318)

### Specifications:

Name:	Anti-NeuroG3 Antibody [PCRP-NEUROG3-1E10] - BSA and Azide free
Description:	Mouse monoclonal [PCRP-NEUROG3-1E10] antibody to NeuroG3.
Specificity:	This antigen is a transcription factor that interacts with NKX2-2 to regulation transcription of NEUROD1. The neurogenin family of proteins belongs to the basic helix-loop-helix (bHLH) superfamily and consists of Neurogenin 1, Neurogenin 2 and Neurogenin 3 (also designated ngn3). bHLH members are transcriptional regulators that determine cell fate. Neurogenin 3 is expressed in discrete regions of developing neurons and in the embryonic pancreatic islets of Langerhans. HNF-6 (hepatocyte nuclear factor 6) acts as a positive regulator of Neurogenin 3 by binding to and stimulating the neurogenin gene promoter. Neurogenin 3 is involved in the initial differentiation of the four islets cell types, while a network of transcription factors, including Hlx9, Isl1, NeuroD, Nkx-2.2, Nkx-6.4, Pax-4, Pax-6, PDX-1 and Mash1, are required for final differentiation. Neurogenin 3 acts upstream of NeuroD in a bHLH cascade. Neurogenin 3 activates the expression of NeuroD at the onset of islet cell differentiation through box sequences E1 and E3 in the NeuroD promoter.
Applications:	ELISA, IP, Flow Cytometry
Recommended Dilutions:	IP: 1-2µg / 100-500µg proteins, Flow Cytometry: 1-2 µg/million cells
Reactivity:	Human
Immunogen:	Recombinant full-length human NeuroG3 protein.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	PCRP-NEUROG3-1E10
Isotype:	IgG2b
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	1 mg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline; without Sodium Azide and carrier free.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

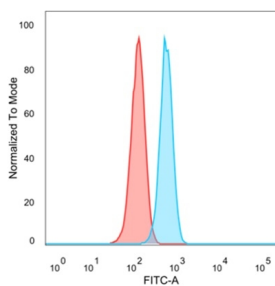
# Anti-NeuroG3 Antibody [PCRP-NEUROG3-1E10] - BSA and Azide free (A278318)

## Specifications continued:

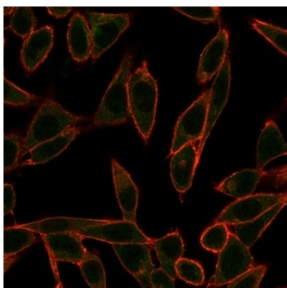
**General Notes:** This monoclonal antibody is also available in a different formulation with BSA and Sodium Azide - Anti-NeuroG3 Antibody [PCRP-NEUROG3-1E10] (A277730).

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

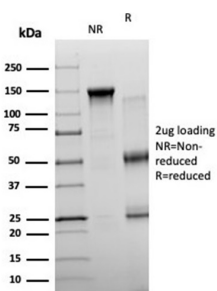
## Images:



Flow cytometric analysis of PFA-fixed HeLa cells using Anti-NeuroG3 Antibody [PCRP-NEUROG3-1E10] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Isotype Control (Red).



Immunofluorescent analysis of PFA-fixed HeLa cells stained with Anti-NeuroG3 Antibody [PCRP-NEUROG3-1E10] followed by Goat Anti-Mouse IgG (CF® 488) (Green). CF® 640A Phalloidin (Red).



SDS-PAGE analysis of Anti-NeuroG3 Antibody [PCRP-NEUROG3-1E10] 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.

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Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-NeuroG3 Antibody [PCRP-NEUROG3-1E10]. 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.