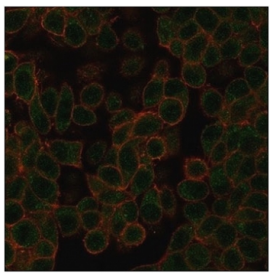
NEUROD2 Antibody [clone PCRP-NEUROD2-1G1] (V9445)

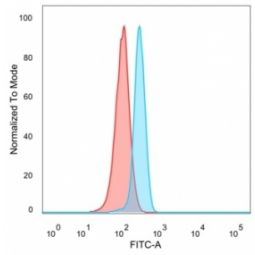
Catalog No.	Formulation	Size
V9445-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9445-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9445SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

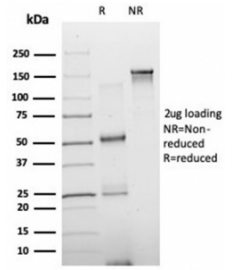
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PCRP-NEUROD2-1G1
Purity	Protein A/G affinity
UniProt	Q15784
Localization	Nucleus
Applications	ELISA (order BSA-free Format For Coating) : Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This NEUROD2 antibody is available for research use only.



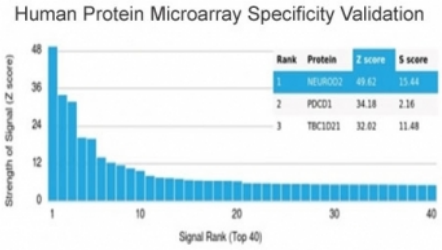
Immunofluorescent staining of PFA-fixed human HeLa cells using NEUROD2 antibody (green, clone PCRP-NEUROD2-1G1) and phalloidin (red).



FACS staining of PFA-fixed human HeLa cells with NEUROD2 antibody (blue, clone PCRP-NEUROD2-1G1) and isotype control (red).



SDS-PAGE analysis of purified, BSA-free NEUROD2 antibody (clone PCRP-NEUROD2-1G1) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using NEUROD2 antibody (clone PCRP-NEUROD2-1G1). These results demonstrate the foremost specificity of the PCRP-NEUROD2-1G1 mAb. Z- and S-score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

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 (2), 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 factorsthat 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.

Application Notes

Optimal dilution of the NEUROD2 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human NEUROD2 protein was used as the immunogen for the NEUROD2 antibody.

Storage

Aliquot the NEUROD2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.