

For Research Use Only

NeuN Polyclonal antibody

Catalog Number: 26975-1-AP **333 Publications**



Basic Information

Catalog Number:

26975-1-AP

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25689

GenBank Accession Number:

NM_001082575

GeneID (NCBI):

146713

Full Name:

hexaribonucleotide binding protein 3

Observed MW:

46-52 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:10000-1:40000

IF-P: 1:50-1:500

IF-Fro: 1:50-1:500

FC (Intra): 0.20 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF-P, IF-Fro, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF, Dot blot

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat, pig, monkey, zebrafish

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, rat brain tissue, mouse cerebellum tissue, rat cerebellum tissue

IHC : rat cerebellum tissue,

IF-P : mouse cerebellum tissue, rat brain tissue, rat cerebellum tissue

IF-Fro : mouse brain tissue,

FC (Intra) : U-87 MG cells,

Background Information

NeuN, encoded by FOX3, is a neuron-specific nuclear protein. Anti-NeuN stains exclusively neuronal cells in the central and peripheral nervous systems, especially postmitotic and differentiating neurons, as well as terminally differentiated neurons. Anti-NeuN has been used widely as a reliable tool to detect most postmitotic neuronal cell types. The immunohistochemical staining is primarily localized in the nucleus of the neurons with lighter staining in the cytoplasm. Several isoforms of NeuN exist due to the alternative splicing. Although the predicted MW of NeuN are 34/35 kDa, it was detected as doublet around 46-52 kDa. (PMID: 21747913)

Notable Publications

Author	Pubmed ID	Journal	Application
Yi-Na Zhang	36168082	Transl Stroke Res	IF
Faming Zhao	32979244	Glia	IF
Wu WenBo	28952006	Neurochem Res	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

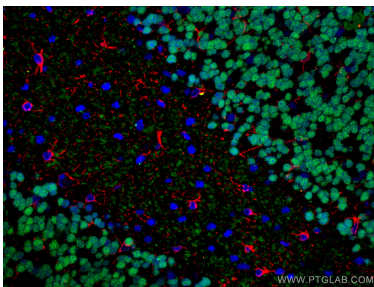
T: 4006900926

E: Proteintech-CN@ptglab.com

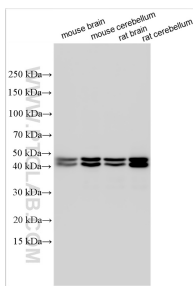
W: ptgcn.com

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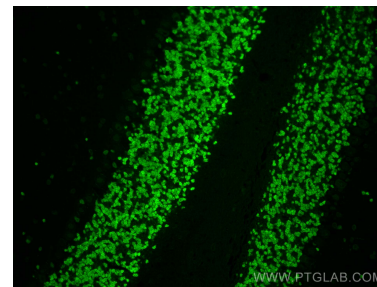
Selected Validation Data



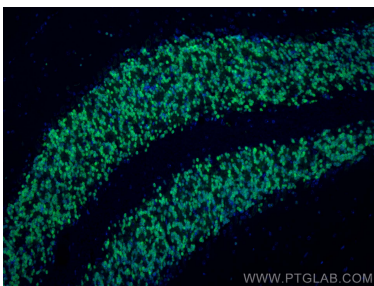
Immunofluorescent analysis of (4% PFA) fixed rat cerebellum tissue using 26975-1-AP (NeuN antibody, green), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). The section was co-stained with 60190-1-Ig (GFP antibody, red).



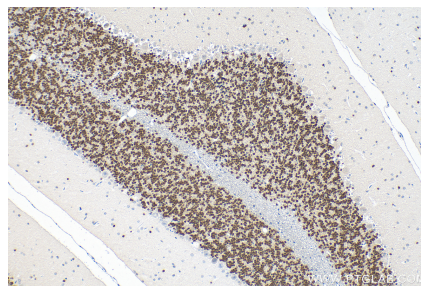
Various lysates were subjected to SDS PAGE followed by western blot with 26975-1-AP (NeuN antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



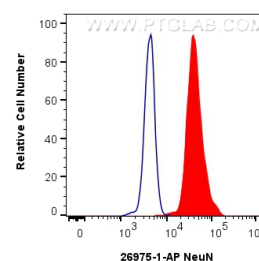
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse cerebellum tissue using NeuN antibody (26975-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



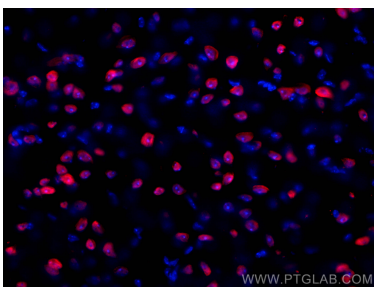
Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using NeuN antibody (26975-1-AP) at dilution of 1:5000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 26975-1-AP (NeuN antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



1X10⁶ U-87 MG cells were intracellularly stained with 0.2 ug Anti-Human NeuN (26975-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using NeuN antibody (26975-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-4).