

For Research Use Only

# NeuN Polyclonal antibody

Catalog Number: 26975-1-AP

342 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

### UNIPROT ID:

A6NFN3

### Full Name:

hexaribonucleotide binding protein 3

### Observed MW:

46-52 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:5000-1:30000

IF-P: 1:200-1:800

IF-Fro: 1:50-1:500

FC (Intra): 0.20 ug per 10<sup>6</sup> 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** : mouse cerebellum tissue, rat cerebellum tissue

**IF-P** : rat brain tissue, rat cerebellum tissue, mouse 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](mailto:Proteintech-CN@ptglab.com)

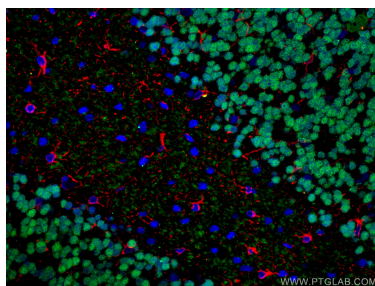
W: [ptgcn.com](http://ptgcn.com)

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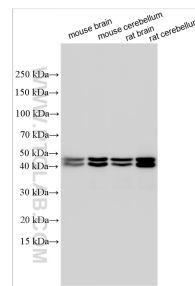
## Selected Validation Data



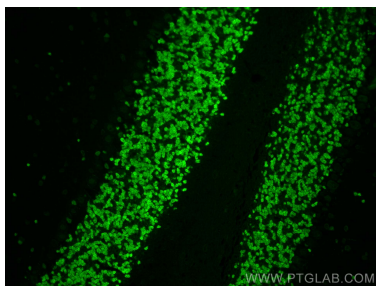
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using NeuN antibody (26975-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), GFAP antibody (60190-1-Ig, Clone: 4B2E10, green). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



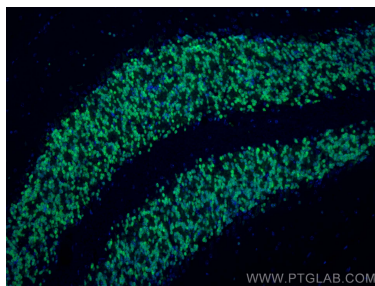
Immunofluorescent analysis of (4% PFA) fixed rat cerebellum tissue using 26975-1-AP (NeuN antibody, green), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). The section was co-stained with 60190-1-Ig (GFAP antibody, red).



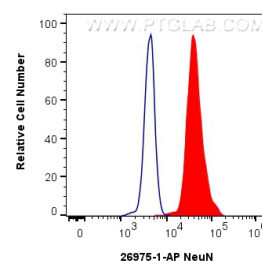
Various lysates were subjected to SDS PAGE followed by western blot with 26975-1-AP (NeuN antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



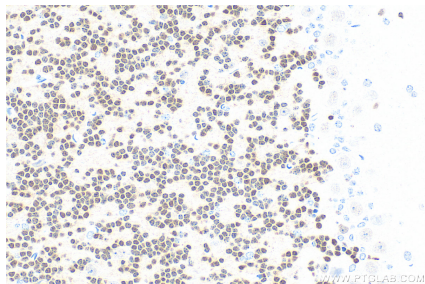
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse cerebellum tissue using NeuN antibody (26975-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



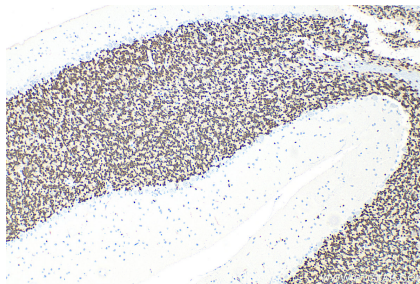
Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using NeuN antibody (26975-1-AP) at dilution of 1:5000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



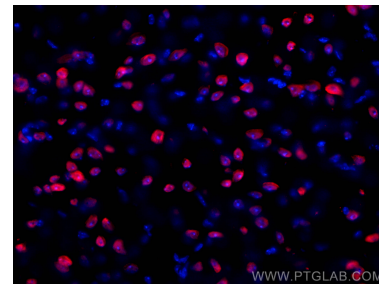
1X10<sup>6</sup> U-87 MG cells were intracellularly stained with 0.2 ug Anti-Human NeuN (26975-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone: ) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 26975-1-AP (NeuN antibody) at dilution of 1:30000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 26975-1-AP (NeuN antibody) at dilution of 1:30000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).