

For Research Use Only

# NeuN Monoclonal antibody

Catalog Number: 66836-1-Ig **155 Publications**



## Basic Information

<b>Catalog Number:</b> 66836-1-Ig	<b>GenBank Accession Number:</b> NM_001082575	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 146713	<b>CloneNo.:</b> 3A4C1
<b>Source:</b> Mouse	<b>Full Name:</b> hexaribonucleotide binding protein 3	<b>Recommended Dilutions:</b> IHC: 1:2500-1:10000 IF-P: 1:50-1:500 FC (Intra): 0.20 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG1		
<b>Immunogen Catalog Number:</b> AG28016		

## Applications

<b>Tested Applications:</b> IHC, IF-P, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, IF	<b>IHC :</b> rat cerebellum tissue, human brain tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF-P :</b> rat cerebellum tissue, mouse cerebellum tissue, rat brain tissue
<b>Cited Species:</b> human, mouse, rat, goat	<b>FC (Intra) :</b> SH-SY5Y cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yingying Wang	36174863	Int J Biol Macromol	IF
Jingying Liu	34646128	Front Aging Neurosci	IF
Yingchu Gu	34471984	J Mol Neurosci	IF

## Storage

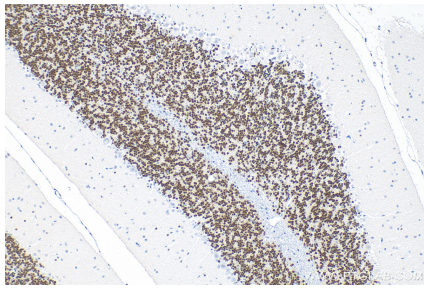
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

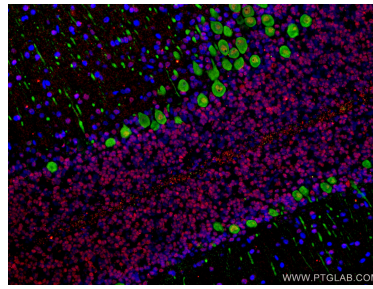
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

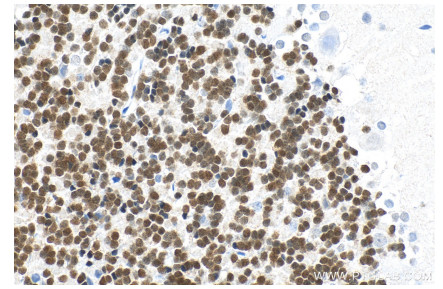
## Selected Validation Data



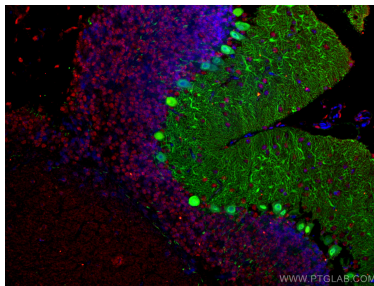
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 66836-1-Ig (NeuN antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



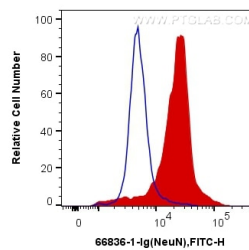
Immunofluorescent analysis of (4% PFA) fixed rat cerebellum tissue using 66836-1-Ig (NeuN antibody, red), at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). The section was co-stained with 14479-1-AP (Calbindin-D28k antibody, green).



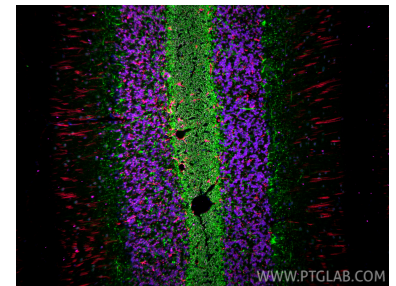
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 66836-1-Ig (NeuN antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



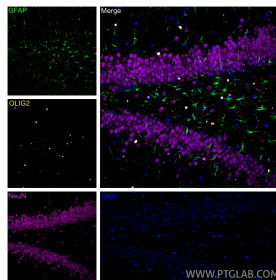
Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using 66836-1-Ig (NeuN antibody), at dilution of 1:100 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). The section was co-stained with 14479-1-AP (Calbindin-D28k Antibody, green).



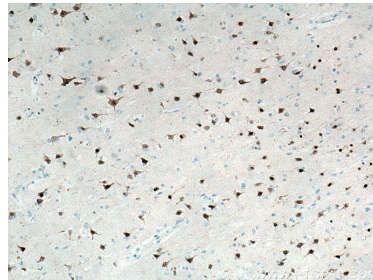
1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.2 ug Anti-Human NeuN (66836-1-Ig, Clone:3A4C1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat cerebellum tissue using NeuN antibody (66836-1-Ig, Clone: 3A4C1) at dilution of 1:800 and CoraLite®647-conjugated F(ab')<sub>2</sub> Fragment Goat Anti-Mouse IgG (H+L) (SA00014-8), CoraLite®594 GFAP antibody (CL594-60190, Clone: 4B2E10, red), NF-H/NF200 antibody (18934-1-AP, green). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using NeuN antibody (66836-1-Ig, Clone: 3A4C1) at dilution of 1:800 and CoraLite®647-conjugated F(ab')<sub>2</sub> Fragment Goat Anti-Mouse IgG (H+L) (SA00014-8), CoraLite® Plus 488 GFAP antibody (CL488-60190, Clone: 4B2E10, green), OLIG2 antibody (13999-1-AP, yellow). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66836-1-Ig (NeuN antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).