

NeuN Mouse mAb

Catalog No.: A29178

Basic Information

Observed MW

46-55 kDa

Calculated MW

34 kDa/35 kDa

Category

Primary antibody

Applications

WB,IF-F,IF-P,IHC-P,ELISA

Cross-Reactivity

Mouse, Rat

CloneNo number

AMC50125

Conjugate

Unmodified

Recommended Dilutions

WB 1:3000 - 1:20000**IF-F** 1:200 - 1:400**IF-P** 1:200 - 1:400**IHC-P** 1:500 - 1:2000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Background

This gene encodes a member of the RNA-binding FOX protein family which is involved in the regulation of alternative splicing of pre-mRNA. The protein has an N-terminal proline-rich region, an RNA recognition motif (RRM) domain, and a C-terminal alanine-rich region. This gene produces the neuronal nuclei (NeuN) antigen that has been widely used as a marker for post-mitotic neurons. This gene has its highest expression in the central nervous system and plays a prominent role in neural tissue development and regulation of adult brain function. Mutations in this gene have been associated with numerous neurological disorders. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.

Note This product is a modified chimeric antibody. For multiplex staining of multiple targets, we recommend using Fc-specific secondary antibodies.

Immunogen Information

Gene ID

146713

Swiss Prot

A6NFN3

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

FOX3; NEUN; FOX-3; HRNBP3

Product Information

Source

Mouse

Isotype

IgG2b. Rabbit-derived mouse chimeric antibody

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

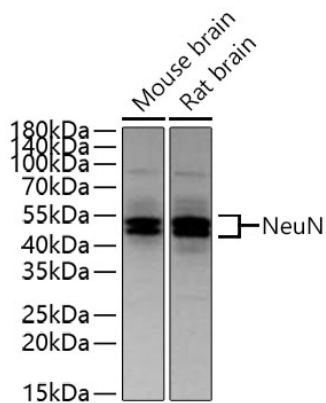
Contact

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Validation Data



Western blot analysis of various lysates using NeuN Mouse mAb (A29178) at 1:5000 dilution incubated overnight at 4°C.

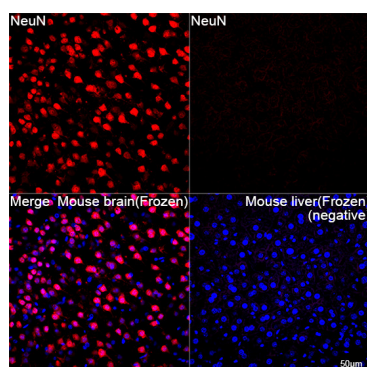
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

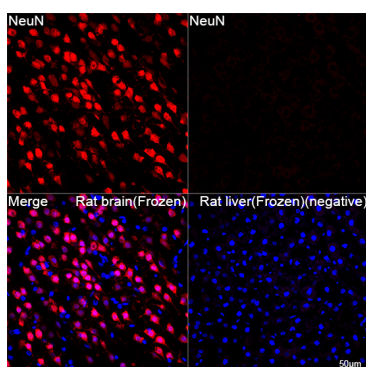
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

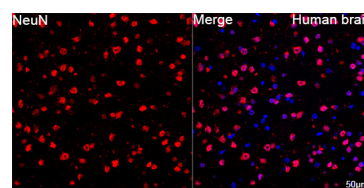
Exposure time: 0.5 s.



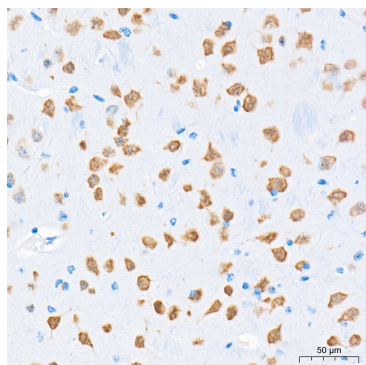
Confocal imaging of frozen sections of Mouse brain tissue and Mouse liver tissue (negative) using NeuN Mouse mAb (A29178, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



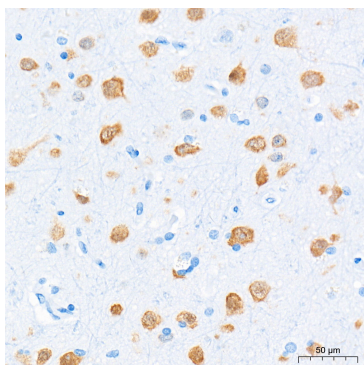
Confocal imaging of frozen sections of Rat brain tissue and Rat liver tissue (negative) using NeuN Mouse mAb (A29178, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



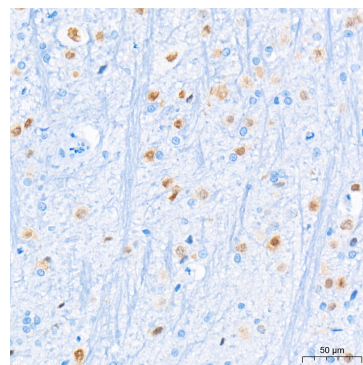
Confocal imaging of paraffin-embedded Human brain tissue using NeuN Mouse mAb (A29178, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using NeuN Mouse mAb (A29178) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human brain tissue using NeuN Mouse mAb (A29178) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using NeuN Mouse mAb (A29178) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.