

NeuN Recombinant Antibody [SR45-07] - Guinea pig IgG2 (Chimeric)

HA601481



Product Type:	Recombinant Chimeric Antibody, primary antibodies
Species reactivity:	Mouse, Rat
Applications:	IHC-Fr, WB
Molecular Wt:	Predicted band size: 34 kDa
Clone number:	SR45-07

Description: Neuronal nuclei (NeuN, Fox-3, RBFOX3) is a nuclear protein expressed in most post-mitotic neurons of the central and peripheral nervous systems. NeuN is not detected in Purkinje cells, sympathetic ganglion cells, Cajal-Retzius cells, INL retinal cells, inferior olivary, and dentate nucleus neurons. This neuronal protein was originally identified by immunoreactivity with a monoclonal antibody also called NeuN. Using MS-analysis, NeuN was later identified as the Fox-3 gene product. Fox-3 contains an RNA recognition motif and functions as a splicing regulator. Fox-3 regulates alternative splicing of NumB, promoting neuronal differentiation during development.

Immunogen: Synthetic peptide within human NeuN aa 20-60.

Positive control: Mouse brain tissue lysate, Rat brain tissue lysate.

Subcellular location: Nucleus, Cytoplasm.

Database links: SwissProt: Q8BIF2 Mouse
Unigene: 143966 Rat

Recommended Dilutions:

IHC-Fr	1:200
WB	1:10,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

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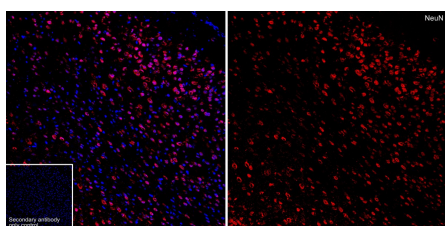
Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

**Fig1:** Application: IHC-Fr

Species: Mouse

Site: brain

Sample: Frozen section

Antibody concentration: 1/200

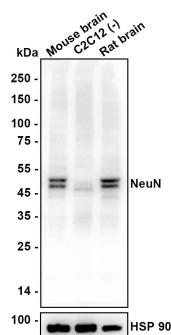
Antigen retrieval: Not required

Fig2: Western blot analysis of NeuN on different lysates with Guinea pig anti-NeuN antibody (HA601481) at 1/10,000 dilution.

Lane 1: Mouse brain tissue lysate

Lane 2: C2C12 cell lysate (negative)

Lane 3: Rat brain tissue lysate



Lysates/proteins at 15 µg/Lane.

Predicted band size: 34 kDa

Observed band size: 45/50 kDa

Exposure time: 20 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601481) at 1/10,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Rabbit anti-Guinea pig IgG H&L - HRP Secondary Antibody (HA1021) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Santamaría G et al. NeuN distribution in brain structures of normal and Zika-infected suckling mice. *J Mol Histol.* 2023 Jun
2. Luijterink L et al. Immunostaining for NeuN Does Not Show all Mature and Healthy Neurons in the Human and Pig Brain: Focus on the Hippocampus. *Appl Immunohistochem Mol Morphol.* 2021 Jul

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