

iFluor™ 594 Conjugated Anti-NeuN Antibody [SR45-07] HA720167F



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|----------------------------|---|
| Product Type: | Recombinant Rabbit monoclonal IgG, primary antibodies |
| Species reactivity: | Human, Mouse, Rat |
| Applications: | IF-Tissue, IHC-Fr |
| 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.

Conjugate: iFluor™ 594, Amax: 587nm; Emax: 603nm.

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

Positive control: Mouse brain tissue, mouse cerebral cortex tissue, mouse hippocampus tissue.

Subcellular location: Cytoplasm, Nucleus

Database links: SwissProt: A6NFN3 Human | Q8BIF2 Mouse
Unigene: 143966 Rat

Recommended Dilutions:

| | |
|------------------|-------|
| IF-Tissue | 1:50 |
| IHC-Fr | 1:100 |

Storage Buffer: Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, 68.98% PBS

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

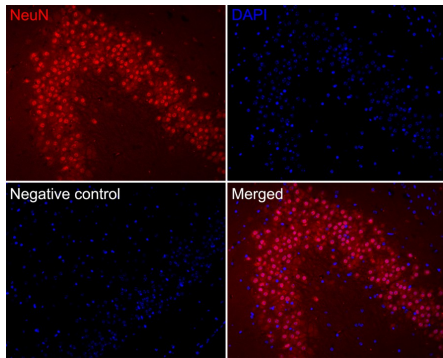


Fig1: Immunofluorescence analysis of paraffin-embedded mouse brain tissue labeling NeuN (HA720167F).

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS. And then probed with the primary antibody NeuN (HA720167F, iFluor™ 594) at 1/50 dilution overnight at 4 °C, washed with PBS. DAPI was used as nuclear counterstain.

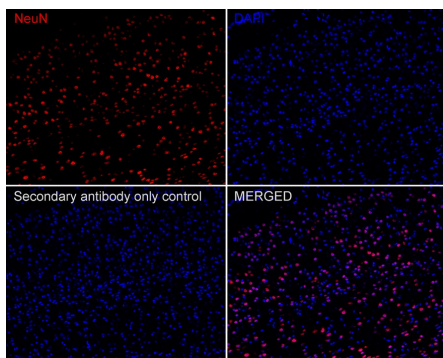


Fig2: Immunofluorescence analysis of paraffin-embedded mouse cerebral cortex tissue labeling NeuN (HA720167F).

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS. And then probed with the primary antibody NeuN (HA720167F, iFluor™ 594) at 1/100 dilution overnight at 4 °C, washed with PBS. DAPI was used as nuclear counterstain.

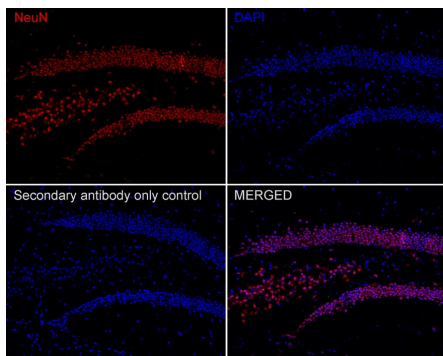


Fig3: Immunofluorescence analysis of paraffin-embedded mouse hippocampus tissue labeling NeuN (HA720167F).

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS. And then probed with the primary antibody NeuN (HA720167F, iFluor™ 594) at 1/100 dilution overnight at 4 °C, washed with PBS. DAPI was used as nuclear counterstain.

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

Background References

1. Patel TP et al. Single-neuron NMDA receptor phenotype influences neuronal rewiring and reintegration following traumatic injury. *J Neurosci* 34:4200-13 (2014).
2. Kaur P et al. Expression profiling of RNA transcripts during neuronal maturation and ischemic injury. *PLoS One* 9:e103525 (2014).

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