

# HA610316



<b>Product Type:</b>	Recombinant Chimeric Antibody, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	IHC-Fr, IHC-P, WB
<b>Molecular Wt:</b>	Predicted band size: 34 kDa
<b>Clone number:</b>	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:** Human brain tissue, mouse brain tissue, rat brain tissue, Mouse brain tissue lysate, Rat brain tissue lysate.

**Subcellular location:** Nucleus, Cytoplasm.

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

**Recommended Dilutions:**

IHC-Fr	1:1,000
IHC-P	1:5,000
WB	1:10,000

**Storage Buffer:** PBS (pH7.4).

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

**Purity:** Protein A affinity purified.

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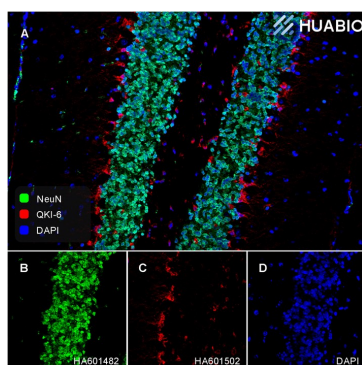
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## Images

**Fig1:** Application: IHC-Fr

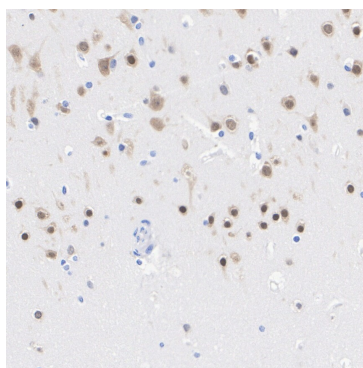
Species: Mouse

Site: brain

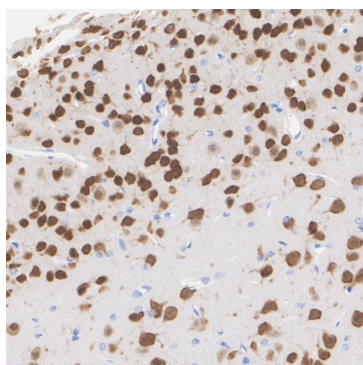
Sample: Frozen section

Antibody concentration: 1/1,000 (NeuN, HA610316, Mouse, green); 1/200 (QKI-6, HA601502, Guinea pig, red)

Antigen retrieval: Not required

**Fig2:** Immunohistochemical analysis of paraffin-embedded human brain tissue with Mouse anti-NeuN antibody (HA610316) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA610316) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Fig3:** Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Mouse anti-NeuN antibody (HA610316) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA610316) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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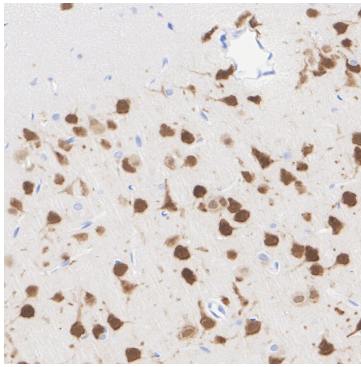
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation



**Fig4:** Immunohistochemical analysis of paraffin-embedded rat brain tissue with Mouse anti-NeuN antibody (HA610316) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA610316) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Fig5:** Western blot analysis of NeuN on different lysates with Mouse anti-NeuN antibody (HA610316) at 1/10,000 dilution.

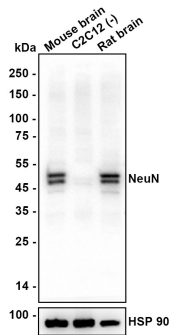
Lane 1: Mouse brain tissue lysate  
Lane 2: C2C12 cell lysate (negative)  
Lane 3: Rat brain tissue lysate

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 (HA610316) at 1/10,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) 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. Luijckx 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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