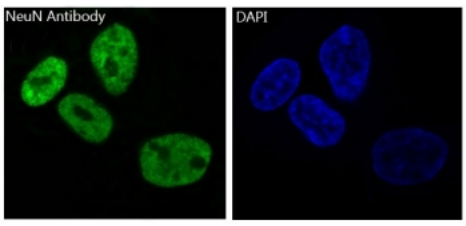
# NeuN Antibody / Fox3 [clone AO-18] (RQ4501)

| Catalog No. | Formulation | Size |
|---|---|---|
| RQ4501 | Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA | 100 ul |

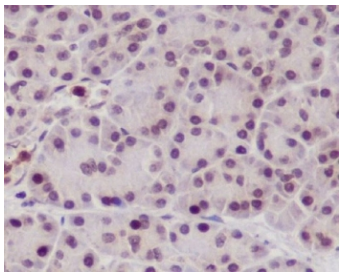
Recombinant RABBIT MONOCLONAL

**Bulk quote request**

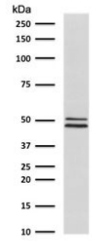
| | |
|---|---|
| **Availability** | 1-2 weeks |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Purified |
| **Clonality** | Recombinant Rabbit Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Name** | AO-18 |
| **Purity** | Protein A affinity |
| **UniProt** | A6NFN3 |
| **Localization** | Nucleus, Cytoplasm |
| **Applications** | Western Blot : 1:1000<br>Immunohistochemistry (FFPE) : 1:50<br>Immunofluorescence : 1:50 |
| **Limitations** | This NeuN antibody is available for research use only. |



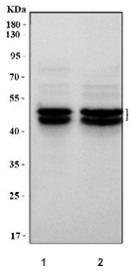

Immunofluorescent staining of human SH-SY5Y cells with NeuN antibody (green) and DAPI nuclear stain (blue).



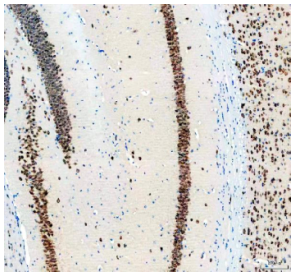
IHC testing of FFPE human pancreas with NeuN antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.




Western blot testing of human fetal brain lysate with NeuN antibody at 0.5ug/ml. Expected molecular weight: 46-48 kDa (two isoforms may be visualized).

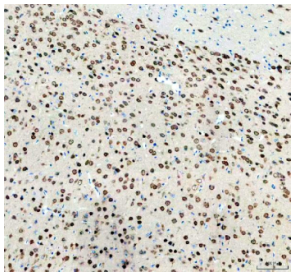



Western blot testing of 1) rat brain and 2) mouse brain tissue lysate with NeuN antibody. Expected molecular weight: 46-48 kDa (two isoforms may be visualized).

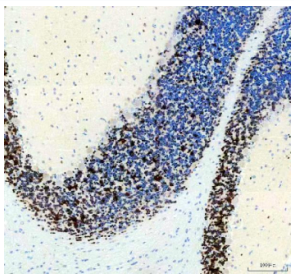


IHC staining of FFPE mouse brain tissue with NeuN antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

IHC staining of FFPE mouse cerebellum tissue with NeuN antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with NeuN antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat cerebellum tissue with NeuN antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

## Description

NeuN, also known as Fox3, is a neuron-specific nuclear protein widely recognized as a marker for post-mitotic neurons. It plays an important role in regulating RNA splicing and gene expression programs necessary for neuronal differentiation and function. A NeuN antibody is a standard tool for identifying and quantifying neurons in brain tissue research.

NeuN is expressed in nearly all mature neurons but is absent from glial cells, making it an essential marker for distinguishing neuronal populations. It has been widely used in developmental neuroscience, neurodegeneration studies, and brain injury models. Employing a NeuN antibody allows for accurate assessment of neuronal density, distribution, and pathology.

NSJ Bioreagents offers a high-quality NeuN antibody validated for immunohistochemistry, immunofluorescence, and western blot. Using a NeuN antibody ensures reliable detection and reproducibility in studies of neurodevelopment, neurological disease, and tissue analysis.

## Application Notes

Optimal dilution of the NeuN antibody should be determined by the researcher.

## Immunogen

A synthetic peptide from human NeuN was used as the immunogen for the NeuN antibody.

## Storage

After reconstitution, the NeuN antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.