

NeuN

Cat.No. 266 011; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: not tested yet IP: not tested yet ICC: 1 : 500 IHC: 1 : 500 IHC-P/FFPE: 1 : 1000 up to 1 : 5000 (see remarks)
Clone	350D3
Subtype	IgG1 (κ light chain)
Immunogen	Recombinant protein corresponding to AA 1 to 97 from mouse NeuN (UniProt Id: Q8BIF2)
Epitop	Epitop: AA 5 to 15 from mouse NeuN (UniProt Id: Q8BIF2)
Reactivity	Reacts with: rat (D4A2H6), mouse (Q8BIF2). No signal: human. Other species not tested yet.
Specificity	Specific for NeuN.
Remarks	IHC-P: For best results apply short antigen retrieval (5min, citrate pH 6.0 at 97°C).

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

NeuN (Neuronal Nuclei) is a neuron-specific nuclear protein that has recently been identified as Fox-3/Rbfox3, a member of the Fox-1 family of transcription factors.

NeuN is only expressed in the nuclei of differentiated neurons. In some neurons - Purkinje cells, sympathetic ganglion cells, INL retinal cells, Cajal-Retzius cells, inferior olivary and dentate nucleus neurons - NeuN is not detectable.

Selected General References

Neurons identified by NeuN/Fox-3 immunoreactivity have a novel distribution in the hamster and mouse suprachiasmatic nucleus.

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Brain research (2011) 1421: 44-51.

NeuN/Fox-3 is an intrinsic component of the neuronal nuclear matrix.

Dent MA, Segura-Anaya E, Alva-Medina J, Aranda-Anzaldo A
FEBS letters (2010) 584(13): 2767-71.

NeuN is not a reliable marker of dopamine neurons in rat substantia nigra.

Cannon JR, Greenamyre JT
Neuroscience letters (2009) 464(1): 14-7.

Identification of neuronal nuclei (NeuN) as Fox-3, a new member of the Fox-1 gene family of splicing factors.

Kim KK, Adelstein RS, Kawamoto S
The Journal of biological chemistry (2009) 284(45): 31052-61.

NeuN, a neuronal specific nuclear protein in vertebrates.

Mullen RJ, Buck CR, Smith AM
Development (Cambridge, England) (1992) 116(1): 201-11.