

NeuN

Cat.No. 266 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: not tested yet IP: not tested yet ICC: 1 : 500 IHC: 1 : 100 up to 1 : 500 IHC-P/FFPE: 1 : 200
Immunogen	Recombinant protein corresponding to AA 1 to 97 from mouse NeuN (UniProt Id: Q8BIF2)
Reactivity	Reacts with: rat (D4A2H6), mouse (Q8BIF2), human (A6NFN3). Other species not tested yet.
Specificity	Specific for NeuN.

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 References SYSY Antibodies

Fibroblast Growth Factor 14 Modulates the Neurogenesis of Granule Neurons in the Adult Dentate Gyrus.

Alshammari MA, Alshammari TK, Nenov MN, Scala F, Laezza F

Molecular neurobiology (2016) 53(10): 7254-7270. **IHC; tested species: mouse**

Maturation dynamics of the axon initial segment (AIS) of newborn dentate granule cells in young adult C57BL/6J mice.

Bolós M, Terreros-Roncal J, Perea JR, Pallas-Bazarra N, Ávila J, Llorens-Martin M

The Journal of neuroscience : the official journal of the Society for Neuroscience (2019) : . **IHC; tested species: mouse**

Neuropathological findings suggestive for a stroke in an alpaca (Vicugna pacos).

Schöniger S, Schütze E, Michalski D, Puchta J, Kaiser M, Härtig W

Acta veterinaria Scandinavica (2019) 61(1): 1. **IHC**

Non-canonical heterogeneous cellular distribution and co-localization of CaMKIIα and CaMKIIβ in the spinal superficial dorsal horn.

Larsson M

Brain structure & function (2018) 223(3): 1437-1457. **IHC; tested species: rat**

NPAS4 recruits CCK basket cell synapses and enhances cannabinoid-sensitive inhibition in the mouse hippocampus.

Hartzell AL, Martyniuk KM, Brigidi GS, Heinz DA, Djaja NA, Payne A, Bloodgood BL

eLife (2018) 7: . **IHC; tested species: mouse**

Impaired Neurofilament Integrity and Neuronal Morphology in Different Models of Focal Cerebral Ischemia and Human Stroke Tissue.

Mages B, Aleithe S, Altmann S, Blietz A, Nitzsche B, Barthel H, Horn AKE, Hobusch C, Härtig W, Krueger M, Michalski D, et al.

Frontiers in cellular neuroscience (2018) 12: 161. **IHC; tested species: mouse**

Expression of calretinin among different neurochemical classes of interneuron in the superficial dorsal horn of the mouse spinal cord.

Gutierrez-Mecinas M, Davis O, Polgár E, Shahzad M, Navarro-Batista K, Furuta T, Watanabe M, Hughes DI, Todd AJ

Neuroscience (2018) : . **IHC; tested species: mouse**

A machine learning approach for online automated optimization of super-resolution optical microscopy.

Durand A, Wiesner T, Gardner MA, Robitaille LÉ, Bilodeau A, Gagné C, De Koninck P, Lavoie-Cardinal F

Nature communications (2018) 9(1): 5247. **IHC; tested species: mouse**

mTh1 driven expression of hTDP-43 results in typical ALS/FTLD neuropathological symptoms.

Scherz B, Rabl R, Flunkert S, Rohler S, Neddens J, Taub N, Temmel M, Panzenboeck U, Niederkofler V, Zimmermann R, Hutter-

Paier B, et al.

PloS one (2018) 13(5): e0197674. **IHC; tested species: mouse**

Substance P-expressing excitatory interneurons in the mouse superficial dorsal horn provide a propriospinal input to the lateral spinal nucleus.

Gutierrez-Mecinas M, Polgár E, Bell AM, Herau M, Todd AJ

Brain structure & function (2018) : . **IHC; tested species: mouse**

Widespread transduction of astrocytes and neurons in the mouse central nervous system after systemic delivery of a self-complementary AAV-PHP.B vector.

Rincon MY, de Vin F, Duqué SI, Fripont S, Castaldo SA, Bouhuijzen-Wenger J, Holt MG

Gene therapy (2018) : . **IHC; tested species: mouse**

Damaged Neocortical Perineuronal Nets Due to Experimental Focal Cerebral Ischemia in Mice, Rats and Sheep.

Härtig W, Mages B, Aleithe S, Nitzsche B, Altmann S, Barthel H, Krueger M, Michalski D

Frontiers in integrative neuroscience (2017) 11: 15. **IHC; tested species: mouse,rat**

Noninvasive Deep Brain Stimulation via Temporally Interfering Electric Fields.

Grossman N, Bono D, Dedic N, Kodandaramaiah SB, Rudenko A, Suk HJ, Cassara AM, Neufeld E, Kuster N, Tsai LH, Pascual-Leone A, et al.

Cell (2017) 169(6): 1029-1041.e16. **IHC; tested species: mouse**

Physiological Concentrations of Amyloid Beta Regulate Recycling of Synaptic Vesicles via Alpha7 Acetylcholine Receptor and CDK5/Calcineurin Signaling.

Lazarevic V, Fieňko S, Andres-Alonso M, Anni D, Ivanova D, Montenegro-Venegas C, Gundelfinger ED, Cousin MA, Fejtova A

Frontiers in molecular neuroscience (2017) 10: 221. **IHC; tested species: mouse**

Pax2 is persistently expressed by GABAergic neurons throughout the adult rat dorsal horn.

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Neuroscience letters (2017) 638: 96-101. **IHC**

Early tissue damage and microstructural reorganization predict disease severity in experimental epilepsy.

Janz P, Schwaderlapp N, Heining K, Häussler U, Korvink JG, von Elverfeldt D, Hennig J, Egert U, LeVan P, Haas CA

eLife (2017) 6: . **IHC; tested species: human**