Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Mar 31, 2025

Anti-NeuN antibody [1B7] - Neuronal Marker

RRID:AB_10711040
Type: Antibody

Proper Citation

(Abcam Cat# ab104224, RRID:AB_10711040)

Antibody Information

URL: http://antibodyregistry.org/AB_10711040

Proper Citation: (Abcam Cat# ab104224, RRID:AB_10711040)

Target Antigen: NeuN

Host Organism: mouse

Clonality: monoclonal

Comments: Applications: ICC, IHC-P, WB
Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:TRUE, NonFunctional in animal:FALSE

Antibody Name: Anti-NeuN antibody [1B7] - Neuronal Marker

Description: This monoclonal targets NeuN

Target Organism: rat, mouse, human

Clone ID: 1B7

Antibody ID: AB_10711040

Vendor: Abcam

Catalog Number: ab104224

Record Creation Time: 20231110T070008+0000

Record Last Update: 20241115T044153+0000

Ratings and Alerts

- Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:TRUE, NonFunctional in animal:FALSE - NYU Langone's Center for Biospecimen Research and Development https://med.nyu.edu/research/scientific-cores-shared-resources/center-biospecimen-research-development

Warning: ***Extracted Antibody Information:*** "Catalog No. 272003, Synaptic Systems) and mouse anti-NeuN (1:1000; RRID: ***AB_10711040***;"

Extracted Specificity Statement: "Only a faint immunosignal in the MNTB was visible after this treatment (data not shown). ***Specificity*** of NeuN and GlyT2 antibodies were tested by the manufacturer in immunohistochemistry and immunoblotting. For all primary antibodies used omission of secondary antibodies resulted in the absence of immunosignal (data not shown)."

Data was mined by Antibody Watch (https://arxiv.org/pdf/2008.01937.pdf), from ***PMID:29073893***
Applications: ICC, IHC-P, WB
Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:TRUE, NonFunctional in animal:FALSE

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 145 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Qin Y, et al. (2025) Reduced mesencephalic astrocyte-derived neurotrophic factor expression by mutant androgen receptor contributes to neurodegeneration in a model of spinal and bulbar muscular atrophy pathology. Neural regeneration research, 20(9), 2655.

Yu ZY, et al. (2025) Roles of blood monocytes carrying TREM2R47H mutation in pathogenesis of Alzheimer's disease and its therapeutic potential in APP/PS1 mice. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(2), e14402.

Li X, et al. (2024) Immune Cells Promote BDNF Expression by Infiltrated Macrophages via Interleukin 4 in the Cerebral Ischemia of Male Rats. Journal of neuroscience research, 102(9), e25379.

Kelley KW, et al. (2024) Host circuit engagement of human cortical organoids transplanted in rodents. Nature protocols.

Zhang G, et al. (2024) Spi1 regulates the microglial/macrophage inflammatory response via the PI3K/AKT/mTOR signaling pathway after intracerebral hemorrhage. Neural regeneration research, 19(1), 161.

Zhang D, et al. (2024) P-tau217 correlates with neurodegeneration in Alzheimer's disease, and targeting p-tau217 with immunotherapy ameliorates murine tauopathy. Neuron.

Griffiths JA, et al. (2024) Peripheral neuronal activation shapes the microbiome and alters gut physiology. Cell reports, 43(4), 113953.

Papadakis S, et al. (2024) Perinatal Western-style diet exposure associated with decreased microglial counts throughout the arcuate nucleus of the hypothalamus in Japanese macaques. Journal of neurophysiology, 131(2), 241.

Ding M, et al. (2024) Tumor necrosis factor-stimulated gene-6 ameliorates early brain injury after subarachnoid hemorrhage by suppressing NLRC4 inflammasome-mediated astrocyte pyroptosis. Neural regeneration research, 19(5), 1064.

Hanson MA, et al. (2024) Development of differential sublaminar feedforward inhibitory circuits in CA1 hippocampus requires Satb2. bioRxiv : the preprint server for biology.

Xu W, et al. (2024) Ring finger protein 216 loss-of-function induces white matter hyperintensities by inhibiting oligodendroglia proliferation. Cell biochemistry and function, 42(4), e4057.

Hou Y, et al. (2024) Involvement and regulation of the left anterior cingulate cortex in the ultrasonic communication deficits of autistic mice. Frontiers in behavioral neuroscience, 18, 1387447.

Esfandiarei M, et al. (2024) Maternal Dietary Deficiency in Choline Reduced Levels of MMP-2 Levels in Blood and Brain Tissue of Male Offspring Mice. Cells, 13(17).

Yang Y, et al. (2024) The chromodomain protein CDYL confers forebrain identity to human cortical organoids by inhibiting neuronatin. Cell reports, 43(10), 114814.

Li HL, et al. (2024) Upregulation of Spinal MDGA1 in Rats After Nerve Injury Alters Interactions Between Neuroligin-2 and Postsynaptic Scaffolding Proteins and Increases GluR1 Subunit Surface Delivery in the Spinal Cord Dorsal Horn. Neurochemical research, 49(2), 507.

Zhang L, et al. (2024) Heat Shock Protein 22 Attenuates Nerve Injury-induced Neuropathic

Pain Via Improving Mitochondrial Biogenesis and Reducing Oxidative Stress Mediated By Spinal AMPK/PGC-1? Pathway in Male Rats. Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology, 19(1), 5.

Sun F, et al. (2024) AdipoRon promotes amyloid-? clearance through enhancing autophagy via nuclear GAPDH-induced sirtuin 1 activation in Alzheimer's disease. British journal of pharmacology, 181(17), 3039.

Zhao Y, et al. (2024) Gut Microbiota-Metabolite-Brain Axis Reconstitution Reverses Sevoflurane-Induced Social and Synaptic Deficits in Neonatal Mice. Research (Washington, D.C.), 7, 0482.

Yang L, et al. (2024) DExH-box helicase 9 modulates hippocampal synapses and regulates neuropathic pain. iScience, 27(2), 109016.

Xue W, et al. (2024) Effective cryopreservation of human brain tissue and neural organoids. Cell reports methods, 4(5), 100777.