Resource Summary Report

Generated by T1D on Aug 2, 2026

NeuroMab

RRID:SCR_003086
Type: Tool

Proper Citation

NeuroMab (RRID:SCR_003086)

Resource Information

URL: http://neuromab.ucdavis.edu/

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Description: A national mouse monoclonal antibody generating resource for biochemical and immunohistochemical applications in mammalian brain. NeuroMabs are generated from mice immunized with synthetic and recombinant immunogens corresponding to components of the neuronal proteome as predicted from genomic and other large-scale cloning efforts. Comprehensive biochemical and immunohistochemical analyses of human, primate and non-primate mammalian brain are incorporated into the initial NeuroMab screening procedure. This yields a subset of mouse mAbs that are optimized for use in brain (i.e. NeuroMabs): for immunocytochemical-based imaging studies of protein localization in adult, developing and pathological brain samples, for biochemical analyses of subunit composition and post-translational modifications of native brain proteins, and for proteomic analyses of native brain protein networks. The NeuroMab facility was initially funded with a five-year U24 cooperative grant from NINDS and NIMH. The initial goal of the facility for this funding period is to generate a library of novel NeuroMabs against neuronal proteins, initially focusing on membrane proteins (receptors/channels/transporters), synaptic proteins, other neuronal signaling molecules, and proteins with established links to disease states. The scope of the facility was expanded with supplements from the NIH Blueprint for Neuroscience Research to include neurodevelopmental targets, the NIH Roadmap for Medical Research to include epigenetics targets, and NIH Office of Rare Diseases Research to include rare disease targets. These NeuroMabs will then be produced on a large scale and made available to the neuroscience research community on an inexpensive basis as tissue culture supernatants or purified immunoglobulin by Antibodies Inc. The UC Davis/NIH NeuroMab Facility makes NeuroMabs available directly to end users and is unable to accommodate sales to distributors for third party distribution. Note, NeuroMab antibodies are now offered through antibodiesinc.

Abbreviations: NeuroMab

Synonyms: UCDavis/NIH NeuroMab Facility, antibodies.inc, antibodiesinc.com, antibodiesinc

Resource Type: portal, organization portal, data or information resource

Keywords: antibody, brain, channel, disease-related protein, k channel subunit, mab, mammalian, membrane protein, monoclonal antibody, mouse, neuronal monoclonal antibody, neuronal protein, neuronal signaling molecule, reagent, receptor, research reagent, synaptic protein, transporter

Funding: NINDS ;
NIMH ;
NIH Blueprint for Neuroscience Research ;
NIH Roadmap for Medical Research ;
Office of Rare Diseases Research ;
Antibodies Inc.

Availability: Free, Freely available

Resource Name: NeuroMab

Resource ID: SCR_003086

Alternate IDs: grid.482686.6, nif-0000-00175

Alternate URLs: https://ror.org/00fyrp007

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260801T190823+0000

Ratings and Alerts

No rating or validation information has been found for NeuroMab.

No alerts have been found for NeuroMab.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1810 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

McLeod CM, et al. (2026) Reduced Neuronal Self-Avoidance in Mouse Starburst Amacrine Cells With Only One Pcdhg Isoform. Developmental neurobiology, 86(1), e70005.

Rego M, et al. (2025) Open-source antibodies as a path to enhanced research reproducibility and transparency. New biotechnology, 87, 121.

Sobierajski E, et al. (2025) Expression of synaptic proteins and development of dendritic spines in fetal and postnatal neocortex of the pig, the European wild boar Sus scrofa. Brain structure & function, 230(2), 38.

Espino CM, et al. (2025) Differential encoding of mammalian proprioception by voltage-gated sodium channels. Science advances, 11(2), eads6660.

Saitoh Y, et al. (2025) Involvement of membrane palmitoylated protein 6 (MPP6) in synapses of mouse cerebrum. Histochemistry and cell biology, 163(1), 50.

Jin G, et al. (2025) The liprin-??/RIM complex regulates the dynamic assembly of presynaptic active zones via liquid-liquid phase separation. PLoS biology, 23(6), e3002817.

Paillard T, et al. (2025) GPR161 mechanosensitivity at the primary cilium drives neuronal saltatory migration. Science advances, 11(31), eadx3846.

Zhou Y, et al. (2025) Stress granule assembly impairs macrophage efferocytosis to aggravate allergic rhinitis in mice. Nature communications, 16(1), 5610.

Lee B, et al. (2025) Signaling by intracellular ??2-adrenergic receptors regulates AMPA receptor trafficking and synaptic plasticity. Cell reports, 44(8), 116011.

Mohar B, et al. (2025) DELTA: a method for brain-wide measurement of synaptic protein turnover reveals localized plasticity during learning. Nature neuroscience, 28(5), 1089.

Woo E, et al. (2025) Ryanodine receptor 2-mediated calcium leak is associated with increased glyoxalase I in the aging brain. JCI insight, 10(22).

Sundberg M, et al. (2025) Human iPSC-derived glutamatergic neurons with pathogenic KCNQ2 variants display hyperactive bursting phenotypes. Neurobiology of disease, 216, 107126.

Joseph BJ, et al. (2025) TDP-43-dependent mis-splicing of KCNQ2 triggers intrinsic neuronal hyperexcitability in ALS/FTD. Nature neuroscience, 28(12), 2476.

Lucchini S, et al. (2025) A novel model of glioblastoma recurrence to identify therapeutic vulnerabilities. EMBO molecular medicine, 17(6), 1325.

Goldschmidt Merrion H, et al. (2025) Dynamic extracellular interactions with AMPA receptors. bioRxiv : the preprint server for biology.

Pannoni KE, et al. (2025) MCU expression in hippocampal CA2 neurons modulates dendritic mitochondrial morphology and synaptic plasticity. Scientific reports, 15(1), 4540.

Lane AR, et al. (2025) Adaptive protein synthesis in genetic models of copper deficiency and childhood neurodegeneration. Molecular biology of the cell, 36(3), ar33.

Vinci E, et al. (2025) Regulation of Dendrite and Dendritic Spine Formation by TCF20. Journal of neurochemistry, 169(1), e16297.

Li L, et al. (2025) Cell-Type Specific Circuits in the Mammillary Body for Place and Object Recognition Memory. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(13), e2409397.

Moubarak E, et al. (2025) Postnatal Development of Dendritic Morphology and Action Potential Shape in Rat Substantia Nigra Dopaminergic Neurons. eNeuro, 12(4).