Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 1, 2025

Anti-NG2 Chondroitin Sulfate Proteoglycan Antibody

RRID:AB_91789
Type: Antibody

Proper Citation

(Millipore Cat# AB5320, RRID:AB_91789)

Antibody Information

URL: http://antibodyregistry.org/AB_91789

Proper Citation: (Millipore Cat# AB5320, RRID:AB_91789)

Target Antigen: NG2 Chondroitin Sulfate Proteoglycan

Host Organism: rabbit

Clonality: polyclonal

Comments: Applications: IHC, WB
Consolidation on 2/2024: AB_11213678

Antibody Name: Anti-NG2 Chondroitin Sulfate Proteoglycan Antibody

Description: This polyclonal targets NG2 Chondroitin Sulfate Proteoglycan

Target Organism: rat, mouse

Defining Citation: PMID:20209960, PMID:18386786, PMID:17245706, PMID:19058188, PMID:18181146, PMID:19760739, PMID:18092342, PMID:16786555, PMID:16705673

Antibody ID: AB_91789

Vendor: Millipore

Catalog Number: AB5320

Record Creation Time: 20231110T055707+0000

Record Last Update: 20241115T112247+0000

Ratings and Alerts

No rating or validation information has been found for Anti-NG2 Chondroitin Sulfate Proteoglycan Antibody.

Warning: The authors state: "Depending on secondary antibody, there was false positive Rab6A staining selectively in microglial cells (1â€“3 larger granula in many cells) present also in the controls (see Figure S8). Only with biotinylated horse anti-goat (followed by CY3-conjugated streptavidin) and donkey anti-mouse Alexa 647 was this non-specific, selective staining prevented. Virtually all non-astrocytic cells examined are negative for Rab6A: 99% of NG2 cells; 100% of microglia; and 98.3% of oligodendrocytes from cortex, 99.5% from corpus callosum, and 100% from hippocampus (Figure 5), and no Rab6A+ neurons were found (Figure S9)."
Applications: IHC, WB
Consolidation on 2/2024: AB_11213678

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 121 mentions in open access literature.

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

Bernou C, et al. (2024) Switching of RNA splicing regulators in immature neuroblasts during adult neurogenesis. eLife, 12.

Zveik O, et al. (2024) Anti- and pro-inflammatory milieu differentially regulate differentiation and immune functions of oligodendrocyte progenitor cells. Immunology, 171(4), 618.

Song Y, et al. (2024) Astrocyte-derived CHI3L1 signaling impairs neurogenesis and cognition in the demyelinated hippocampus. Cell reports, 43(5), 114226.

Toma K, et al. (2024) Perivascular neurons instruct 3D vascular lattice formation via neurovascular contact. Cell, 187(11), 2767.

Huang S, et al. (2024) Disruption of the Na+/K+-ATPase-purinergic P2X7 receptor complex in microglia promotes stress-induced anxiety. Immunity, 57(3), 495.

Vercalsteren E, et al. (2024) The SGLT2 inhibitor Empagliflozin promotes post-stroke functional recovery in diabetic mice. Cardiovascular diabetology, 23(1), 88.

Guo T, et al. (2024) Vascular architecture regulates mesenchymal stromal cell heterogeneity via P53-PDGF signaling in the mouse incisor. Cell stem cell, 31(6), 904.

Franzolin G, et al. (2024) PlexinB1 Inactivation Reprograms Immune Cells in the Tumor Microenvironment, Inhibiting Breast Cancer Growth and Metastatic Dissemination. Cancer immunology research, 12(9), 1286.

Hoffmann H, et al. (2024) Normalization of Snai1-mediated vessel dysfunction increases drug response in cancer. Oncogene, 43(35), 2661.

Ren SY, et al. (2024) Growth hormone promotes myelin repair after chronic hypoxia via triggering pericyte-dependent angiogenesis. Neuron, 112(13), 2177.

Holl D, et al. (2024) Distinct origin and region-dependent contribution of stromal fibroblasts to fibrosis following traumatic injury in mice. Nature neuroscience, 27(7), 1285.

Mok KK, et al. (2023) Apolipoprotein E ?4 disrupts oligodendrocyte differentiation by interfering with astrocyte-derived lipid transport. Journal of neurochemistry, 165(1), 55.

Rosko LM, et al. (2023) Cerebral Creatine Deficiency Affects the Timing of Oligodendrocyte Myelination. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(7), 1143.

Kim H, et al. (2023) Oligodendrocyte precursor cells stop sensory axons regenerating into the spinal cord. Cell reports, 42(9), 113068.

Festa LK, et al. (2023) Antiretroviral treatment reveals a novel role for lysosomes in oligodendrocyte maturation. Journal of neurochemistry, 165(5), 722.

Oizumi H, et al. (2023) Lethal adulthood myelin breakdown by oligodendrocyte-specific Ddx54 knockout. iScience, 26(10), 107448.

Pukos N, et al. (2023) Chronic demyelination and myelin repair after spinal cord injury in mice: A potential link for glutamatergic axon activity. Glia.

Ganz T, et al. (2023) Oligodendrocyte progenitor cells differentiation induction with MAPK/ERK inhibitor fails to support repair processes in the chronically demyelinated CNS. Glia, 71(12), 2815.

Kameyama T, et al. (2023) Heterogeneity of perivascular astrocyte endfeet depending on vascular regions in the mouse brain. iScience, 26(10), 108010.

Thompson A, et al. (2023) Brain-wide circuit-specific targeting of astrocytes. Cell reports methods, 3(12), 100653.