

Resource Summary Report

Generated by RRID on Sep 4, 2026

GFAP antibody [2A5] - Astrocyte Marker

RRID:AB_449329

Type: Antibody

Proper Citation

Abcam Cat# ab4648, RRID:AB_449329

Antibody Information

URL: http://antibodyregistry.org/AB_449329

Proper Citation: Abcam Cat# ab4648, RRID:AB_449329

Target Antigen: GFAP antibody [2A5] - Astrocyte Marker

Host Organism: mouse

Clonality: monoclonal

Comments: validation status unknown, seller recommendations provided in 2012: Immunofluorescence; Western Blot; Immunohistochemistry; ELISA; Immunohistochemistry - frozen; Immunocytochemistry; Immunohistochemistry - fixed; ICC, ICC/IF, IHC-Fr, IHC-P, sELISA, WB

Antibody Name: GFAP antibody [2A5] - Astrocyte Marker

Description: This monoclonal targets GFAP antibody [2A5] - Astrocyte Marker

Target Organism: rat, porcine, cow, pig, mouse, bovine, human

Antibody ID: AB_449329

Vendor: Abcam

Catalog Number: ab4648

Record Creation Time: 20231110T080959+0000

Record Last Update: 20260829T233518+0000

Ratings and Alerts

No rating or validation information has been found for GFAP antibody [2A5] - Astrocyte Marker.

No alerts have been found for GFAP antibody [2A5] - Astrocyte Marker.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 26 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Esteban-Garc??a N, et al. (2026) Noninvasive Focal Gene Delivery into the Cerebellum of Non-Human Primates using Focused Ultrasound. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(37), e75307.

Huang W, et al. (2026) Nanoengineered extrusion-aligned tract bioprinting enables functional repair of spinal cord injuries. *Cell stem cell*.

Wang C, et al. (2026) A Deep Learning-Driven Framework Integrating Organoid-Based Functional Validation Identifies Universal Neoantigens from Recurrent Glioma Mutations. *Cancer research*, 86(12), 3074.

Ma X, et al. (2026) The Small Chemical Compound Repsox Potentiates Oct4-Driven Astrocyte-to-Neural Stem Cell Reprogramming via Notch1/Hes1/Smurf2 Pathway. *Cellular and molecular neurobiology*, 46(1).

Maidana LM, et al. (2026) Neuroprotective Effects of Strength Training on Behavioral Deficit, Oxidative Damage, Astrogliosis, and Neuronal Death in a Bipolar Disorder Model. *Journal of neurochemistry*, 170(3), e70392.

Qin H, et al. (2026) Neuronal TLR4 upregulation activates the cGAS-STING pathway to induce ferroptosis in EAE mice. *International immunopharmacology*, 174, 116364.

Moon BS, et al. (2026) Brain corticogenesis promotes SARS-CoV-2 neuro-glial tropism through lipid-dependent viral replication. *Stem cell reports*, 103020.

Balzano T, et al. (2025) Temporal dynamics of neurovascular unit changes following blood-brain barrier opening in the putamen of non-human primates. *Journal of controlled release : official journal of the Controlled Release Society*, 377, 116.

Jinnou H, et al. (2025) Outer radial glia promotes white matter regeneration after neonatal brain injury. *Cell reports. Medicine*, 6(3), 101986.

Chen J, et al. (2025) Mutual regulation of microglia and astrocytes after Gas6 inhibits spinal cord injury. *Neural regeneration research*, 20(2), 557.

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.

Liu S, et al. (2024) A nanowell-based MoS₂ neuroelectrode for high-sensitivity neural recording. *iScience*, 27(10), 110949.

Liu J, et al. (2024) Dual-targeting AAV9P1-mediated neuronal reprogramming in a mouse model of traumatic brain injury. *Neural regeneration research*, 19(3), 629.

Palanivel V, et al. (2024) Neuropeptide Y receptor activation preserves inner retinal integrity through PI3K/Akt signaling in a glaucoma mouse model. *PNAS nexus*, 3(8), pgae299.

Balzano T, et al. (2024) Neurovascular and immune factors of vulnerability of substantia nigra dopaminergic neurons in non-human primates. *NPJ Parkinson's disease*, 10(1), 118.

Ding BY, et al. (2023) Knockdown of NADPH oxidase 4 reduces mitochondrial oxidative stress and neuronal pyroptosis following intracerebral hemorrhage. *Neural regeneration research*, 18(8), 1734.

Blesa J, et al. (2023) BBB opening with focused ultrasound in nonhuman primates and Parkinson's disease patients: Targeted AAV vector delivery and PET imaging. *Science advances*, 9(16), eadf4888.

Zhu ZH, et al. (2023) Neural stem cell-derived exosome as a nano-sized carrier for BDNF delivery to a rat model of ischemic stroke. *Neural regeneration research*, 18(2), 404.

Leduc-Pessah H, et al. (2022) Spinal A3 adenosine receptor activation acutely restores morphine antinociception in opioid tolerant male rats. *Journal of neuroscience research*, 100(1), 251.

Abdul-Muneer PM, et al. (2022) Synergistic effect of mild traumatic brain injury and alcohol aggravates neuroinflammation, amyloidogenesis, tau pathology, neurodegeneration, and blood-brain barrier alterations: Impact on psychological stress. *Experimental neurology*, 358, 114222.