

Resource Summary Report

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Anti-Glutamate Transporter, Glial

RRID:AB_90949

Type: Antibody

Proper Citation

Millipore Cat# AB1783, RRID:AB_90949

Antibody Information

URL: http://antibodyregistry.org/AB_90949

Proper Citation: Millipore Cat# AB1783, RRID:AB_90949

Target Antigen: Glutamate Transporter, Glial (GLT-1)

Host Organism: guinea pig

Clonality: polyclonal

Comments: seller recommendations: Immunohistochemistry; Western Blotting, Immunohistochemistry

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:FALSE, NonFunctional in animal:FALSE

Antibody Name: Anti-Glutamate Transporter, Glial

Description: This polyclonal targets Glutamate Transporter, Glial (GLT-1)

Target Organism: rat, mouse, human

Defining Citation: [PMID:18831527](#), [PMID:19260071](#), [PMID:22522966](#)

Antibody ID: AB_90949

Vendor: Millipore

Catalog Number: AB1783

Record Creation Time: 20250820T033233+0000

Record Last Update: 20250820T163129+0000

Ratings and Alerts

- Independent validation by the NYU Langone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, 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>

No alerts have been found for Anti-Glutamate Transporter, Glial.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 47 mentions in open access literature.

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

Johnson H, et al. (2026) Developmental Profiling of Structural and Functional Maturation in Mouse Corpus Callosum. *Glia*, 74(6), e70152.

Zöldi M, et al. (2026) A Super-Resolution Approach for Astrocyte-Specific Molecular Imaging Reveals the Nanoscale Distribution of Monoacylglycerol Lipase, the Metabolic Node Between Endocannabinoid and Prostaglandin Signaling. *Glia*, 74(9), e70186.

Melone M, et al. (2026) Organization of Astrocytic GLT-1 at Cortical Inhibitory Synapses. *Glia*, 74(8), e70180.

Coulter O, et al. (2025) Adolescent Alcohol Exposure Disrupts Astrocyte-Synaptic Structural And Functional Coupling In The Male Dorsal Hippocampus. *bioRxiv : the preprint server for biology*.

Bennett A, et al. (2025) Glutamatergic dysfunction of astrocytes in paraventricular nucleus of thalamus contributes to adult anxiety susceptibility in adolescent ethanol exposed mice. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*.

Schneider Y, et al. (2024) Distinct forebrain regions define a dichotomous astrocytic profile in multiple system atrophy. *Acta neuropathologica communications*, 12(1), 1.

Shigetomi E, et al. (2024) Disease-relevant upregulation of P2Y1 receptor in astrocytes enhances neuronal excitability via IGFBP2. *Nature communications*, 15(1), 6525.

Edler MK, et al. (2023) The association of astrogliosis and microglial activation with aging and Alzheimer's disease pathology in the chimpanzee brain. *Journal of neuroscience research*, 101(6), 881.

- Healey KL, et al. (2023) Adolescent intermittent ethanol exposure enhances adult stress effects in male rats. *Pharmacology, biochemistry, and behavior*, 223, 173513.
- Azevedo-Pereira RL, et al. (2023) Decoding the molecular crosstalk between grafted stem cells and the stroke-injured brain. *Cell reports*, 42(4), 112353.
- Giangrasso DM, et al. (2023) Glutamate dynamics in the dorsolateral striatum of rats with goal-directed and habitual cocaine-seeking behavior. *Frontiers in molecular neuroscience*, 16, 1160157.
- Martinez-Lozada Z, et al. (2023) Cooperative and competitive regulation of the astrocytic transcriptome by neurons and endothelial cells: Impact on astrocyte maturation. *Journal of neurochemistry*, 167(1), 52.
- Rieskamp JD, et al. (2023) Excitatory amino acid transporter 1 supports adult hippocampal neural stem cell self-renewal. *iScience*, 26(7), 107068.
- Zheng X, et al. (2023) Preclinical long-term safety of intraspinal transplantation of human dorsal spinal GABA neural progenitor cells. *iScience*, 26(11), 108306.
- Chiu CY, et al. (2022) NS5806 inhibits ERK activation to attenuate pain induced by peripheral nerve injury. *Neuroscience letters*, 790, 136890.
- Wu X, et al. (2022) Synaptic hyperexcitability of cytomegalic pyramidal neurons contributes to epileptogenesis in tuberous sclerosis complex. *Cell reports*, 40(3), 111085.
- Somaiya RD, et al. (2022) Development of astrocyte morphology and function in mouse visual thalamus. *The Journal of comparative neurology*, 530(7), 945.
- Munger EL, et al. (2022) Comparative analysis of astrocytes in the prefrontal cortex of primates: Insights into the evolution of human brain energetics. *The Journal of comparative neurology*, 530(18), 3106.
- Munoz-Ballester C, et al. (2022) Mild Traumatic Brain Injury-Induced Disruption of the Blood-Brain Barrier Triggers an Atypical Neuronal Response. *Frontiers in cellular neuroscience*, 16, 821885.
- Requie LM, et al. (2022) Astrocytes mediate long-lasting synaptic regulation of ventral tegmental area dopamine neurons. *Nature neuroscience*, 25(12), 1639.