

Resource Summary Report

Generated by [RRID](#) on Aug 13, 2026

Glutamate Receptor 1 (AMPA subtype) antibody

RRID:AB_2113447

Type: Antibody

Proper Citation

Abcam Cat# ab31232, RRID:AB_2113447

Antibody Information

URL: http://antibodyregistry.org/AB_2113447

Proper Citation: Abcam Cat# ab31232, RRID:AB_2113447

Target Antigen: Gria1

Host Organism: rabbit

Clonality: polyclonal

Comments: validation status unknown, seller recommendations provided in 2012:western blot, immunohistochemistry

Antibody Name: Glutamate Receptor 1 (AMPA subtype) antibody

Description: This polyclonal targets Gria1

Target Organism: mouse, human

Antibody ID: AB_2113447

Vendor: Abcam

Catalog Number: ab31232

Record Creation Time: 20250820T055342+0000

Record Last Update: 20250820T224512+0000

Ratings and Alerts

No rating or validation information has been found for Glutamate Receptor 1 (AMPA subtype) antibody.

No alerts have been found for Glutamate Receptor 1 (AMPA subtype) antibody.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 31 mentions in open access literature.

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

Mou W, et al. (2025) Astrocyte-to-neuron interaction via NF- κ B/C3/C3aR mediates chronic post-thoracotomy pain by modulating neuronal GluR1 in spinal dorsal horn. *iScience*, 28(12), 113917.

Carter SKR, et al. (2025) Glutamate stress in the caudal nucleus tractus solitarii (nTS): Impact on respiratory function and synaptic signaling in an Alzheimer's disease model. *Experimental neurology*, 387, 115190.

Harris SS, et al. (2025) The amyloid precursor family of proteins in excitatory neurons are essential for regulating cortico-hippocampal circuit dynamics in vivo. *Cell reports*, 44(6), 115801.

Misrani A, et al. (2024) Vibration-reduced anxiety-like behavior relies on ameliorating abnormalities of the somatosensory cortex and medial prefrontal cortex. *Neural regeneration research*, 19(6), 1351.

Pan YD, et al. (2024) Intermittent Hypobaric Hypoxia Ameliorates Autistic-Like Phenotypes in Mice. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(7).

Baytas O, et al. (2024) Loss of mitochondrial enzyme GPT2 leads to reprogramming of synaptic glutamate metabolism. *Molecular brain*, 17(1), 87.

Yan L, et al. (2024) Physical exercise mediates cortical synaptic protein lactylation to improve stress resilience. *Cell metabolism*, 36(9), 2104.

Baytas O, et al. (2024) Loss of mitochondrial enzyme GPT2 leads to reprogramming of synaptic glutamate metabolism. *bioRxiv : the preprint server for biology*.

Kawashima R, et al. (2024) Necl-1/CADM3 regulates cone synapse formation in the mouse retina. *iScience*, 27(4), 109577.

Zhu D, et al. (2024) Overabundant endocannabinoids in neurons are detrimental to cognitive function. *bioRxiv : the preprint server for biology*.

Siemsen BM, et al. (2023) Heroin Self-Administration and Extinction Increase Prelimbic Cortical Astrocyte-Synapse Proximity and Alter Dendritic Spine Morphometrics That Are Reversed by N-Acetylcysteine. *Cells*, 12(14).

Cui X, et al. (2022) Identification and characterization of long non-coding RNA Carip in modulating spatial learning and memory. *Cell reports*, 38(8), 110398.

Teng XY, et al. (2022) A novel Lgi1 mutation causes white matter abnormalities and impairs motor coordination in mice. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 36(3), e22212.

Zhan JQ, et al. (2021) Flavonoid fisetin reverses impaired hippocampal synaptic plasticity and cognitive function by regulating the function of AMPARs in a male rat model of schizophrenia. *Journal of neurochemistry*, 158(2), 413.

Han JK, et al. (2021) Ablation of STAT3 in Purkinje cells reorganizes cerebellar synaptic plasticity in long-term fear memory network. *eLife*, 10.

Pohlkamp T, et al. (2021) NHE6 depletion corrects ApoE4-mediated synaptic impairments and reduces amyloid plaque load. *eLife*, 10.

Liu H, et al. (2021) Valproic Acid Induces Autism-Like Synaptic and Behavioral Deficits by Disrupting Histone Acetylation of Prefrontal Cortex ALDH1A1 in Rats. *Frontiers in neuroscience*, 15, 641284.

Hwang H, et al. (2021) Cyclin Y, a novel actin-binding protein, regulates spine plasticity through the cofilin-actin pathway. *Progress in neurobiology*, 198, 101915.

Bieler M, et al. (2021) Changes in concentrations of NMDA receptor subunit GluN2B, Arc and syntaxin-1 in dorsal hippocampus Schaffer collateral synapses in a rat learned helplessness model of depression. *The Journal of comparative neurology*, 529(12), 3194.

Zhu YB, et al. (2020) Activation of CaMKII and GluR1 by the PSD-95-GluN2B Coupling-Dependent Phosphorylation of GluN2B in the Spinal Cord in a Rat Model of Type-2 Diabetic Neuropathic Pain. *Journal of neuropathology and experimental neurology*, 79(7), 800.