

# 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](http://antibodyregistry.org/AB_2113447)

**Proper Citation:** Abcam Cat# ab31232, RRID:AB\_2113447

**Target Antigen:** Glutamate Receptor 1 (AMPA subtype) antibody

**Host Organism:** rabbit

**Clonality:** polyclonal

**Comments:** validation status unknown, seller recommendations provided in 2012: IHC-FoFr, IHC-P, WB; Immunohistochemistry - frozen; Immunohistochemistry - fixed; Immunohistochemistry; Western Blot

**Antibody Name:** Glutamate Receptor 1 (AMPA subtype) antibody

**Description:** This polyclonal targets Glutamate Receptor 1 (AMPA subtype) antibody

**Target Organism:** rat, mouse, human

**Antibody ID:** AB\_2113447

**Vendor:** Abcam

**Catalog Number:** ab31232

**Record Creation Time:** 20250819T234118+0000

**Record Last Update:** 20250820T060648+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.

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## Data and Source Information

**Source:** [Antibody Registry](#)

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## 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- $\kappa$ B/C3/C3aR mediates chronic post-thoracotomy pain by modulating neuronal GluR1 in spinal dorsal horn. iScience, 28(12), 113917.

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.

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.

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).

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. Molecular brain, 17(1), 87.

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).

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.

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.

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.

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.

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.

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.