

Resource Summary Report

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NMDA Receptor 2B (GluN2B) (D8E10) Rabbit mAb

RRID:AB_2798506

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 14544, RRID:AB_2798506

Antibody Information

URL: http://antibodyregistry.org/AB_2798506

Proper Citation: Cell Signaling Technology Cat# 14544, RRID:AB_2798506

Target Antigen: NMDAR2B

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W, IP

Antibody Name: NMDA Receptor 2B (GluN2B) (D8E10) Rabbit mAb

Description: This monoclonal targets NMDAR2B

Target Organism: m, r

Clone ID: Clone D8E10

Antibody ID: AB_2798506

Vendor: Cell Signaling Technology

Catalog Number: 14544

Record Creation Time: 20250819T235001+0000

Record Last Update: 20250820T063411+0000

Ratings and Alerts

No rating or validation information has been found for NMDA Receptor 2B (GluN2B) (D8E10) Rabbit mAb.

No alerts have been found for NMDA Receptor 2B (GluN2B) (D8E10) Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Sadighi M, et al. (2025) Subchronic amphetamine decreases hyperactivity, anti-social behaviour and anhedonia in dopamine transporter knockout rats: role of prefrontal glutamate. *Neuropharmacology*, 279, 110597.

Caffino L, et al. (2025) Memantine-induced functional rewiring of the glutamate synapse in the striatum of dopamine transporter knockout rats. *British journal of pharmacology*, 182(6), 1377.

Mottarlini F, et al. (2025) Repeated cocaine exposure and prolonged withdrawal induce spatial memory impairment and dysregulate the glutamatergic synapse composition in the dorsal hippocampus of male rats. *Neuropharmacology*, 273, 110453.

Zhang C, et al. (2024) Transcranial Magneto-Acoustic Stimulation Protects Synaptic Rehabilitation from Amyloid-Beta Plaques via Regulation of Microglial Functions. *International journal of molecular sciences*, 25(9).

Caffino L, et al. (2024) Chronic Lithium Treatment Alters NMDA and AMPA Receptor Synaptic Availability and Dendritic Spine Organization in the Rat Hippocampus. *Current neuropharmacology*, 22(12), 2045.

Mottarlini F, et al. (2024) Communal nesting shapes the sex-dependent glutamatergic response to early life stress in the rat prefrontal cortex. *Frontiers in psychiatry*, 15, 1406687.

Peng Y, et al. (2023) Translational patterns of ionotropic glutamate and GABA receptors during brain development and behavioral stimuli revealed by polysome profiling. *Journal of neurochemistry*, 164(6), 786.

Arias-Cavieres A, et al. (2023) A Consequence of Immature Breathing induces Persistent Changes in Hippocampal Synaptic Plasticity and Behavior: A Role of Pro-Oxidant State and NMDA Receptor Imbalance. *bioRxiv : the preprint server for biology*.

Rumian NL, et al. (2023) Decreased nitrosylation of CaMKII causes aging-associated impairments in memory and synaptic plasticity in mice. *Science signaling*, 16(795), eade5892.

Gerace E, et al. (2023) Ethanol-induced AMPA alterations are mediated by mGLU5 receptors through miRNA upregulation in hippocampal slices. *European journal of pharmacology*, 955, 175878.

Arias-Cavieres A, et al. (2023) A consequence of immature breathing induces persistent changes in hippocampal synaptic plasticity and behavior: a role of prooxidant state and NMDA receptor imbalance. *Frontiers in molecular neuroscience*, 16, 1192833.

Wang J, et al. (2023) Increased NMDARs in neurons and glutamine synthetase in astrocytes underlying autistic-like behaviors of Gabrb1-/- mice. *iScience*, 26(8), 107476.

Mottarlini F, et al. (2022) Cortical reorganization of the glutamate synapse in the activity-based anorexia rat model: Impact on cognition. *Journal of neurochemistry*, 161(4), 350.

Tullis JE, et al. (2021) GluN2B S1303 phosphorylation by CaMKII or DAPK1: no indication for involvement in ischemia or LTP. *iScience*, 24(10), 103214.

Veschsanit N, et al. (2021) Melatonin reverts methamphetamine-induced learning and memory impairments and hippocampal alterations in mice. *Life sciences*, 265, 118844.

Mottarlini F, et al. (2020) Activity-Based Anorexia Dynamically Dysregulates the Glutamatergic Synapse in the Nucleus Accumbens of Female Adolescent Rats. *Nutrients*, 12(12).

Buonarati OR, et al. (2020) CaMKII versus DAPK1 Binding to GluN2B in Ischemic Neuronal Cell Death after Resuscitation from Cardiac Arrest. *Cell reports*, 30(1), 1.

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.

Holz A, et al. (2019) Enhanced mGlu5 Signaling in Excitatory Neurons Promotes Rapid Antidepressant Effects via AMPA Receptor Activation. *Neuron*, 104(2), 338.