

Anti-GluN2B/NR2B glutamate receptor [N59/36.1] Standard Size Ab02249-2.0

Variable region sequences were determined by Dr. James Trimmer at the University of California, Davis, as supported by National Institutes of Health BRAIN Initiative award U24 NS109113.

Isotype and Format: Mouse IgG2a, Kappa

Clone Number: N59/36.1

Alternative Name(s) of Target: N59/36.1R; GluN2B; Glutamate receptor ionotropic, NMDA 2B; Glutamate [NMDA] receptor subunit epsilon-2; N-methyl D-aspartate receptor subtype 2B; NMDAR2B; NR2B

UniProt Accession Number of Target Protein: Q00960

Published Application(s): ICC, IP, KO, WB, IF, IHC

Published Species Reactivity: Rat, Human, Mouse

Immunogen: This antibody was raised by immunising BALB/c mice with a fusion of protein amino acids 20-271 (extracellular N-terminus) of rat NR2B.

Specificity: This antibody is specific for the NR2B protein, a component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium.

Application Notes: The IgG2a version of this antibody has been used in western blotting on rat cortical neurons (Plowey et al, 2014; PMID: 24874075). Co-immunoprecipitation has been preformed on extrasynaptic membranes of adult rat brains with the IgG2A version of this antibody (Chiu et al, 2019; PMID:31291571). This antibody has shown use in immunocytochemistry, immunofluorescence, immunohistochemistry or for knock out.

Antibody First Published in: Plowey et al. Mutant LRRK2 Enhances Glutamatergic Synapse Activity and Evokes Excitotoxic Dendrite Degeneration Biochim Biophys Acta. 2014 Sep; 1842(9): 1596-1603.

[PMID:24874075](#)

Note on publication: Describes research on the mutations of the LRRK2 gene. These mutations might have something to do with parkinsons disease.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In:

PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.