

## Anti-GluN2B/NR2B glutamate receptor [N59/36.1] Bulk Size Ab02249-2.0-BT

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 performed 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:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:**

PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.