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RABBIT ANTI-NMDAR1 C2 SPLICE VARIANT AFFINITY PURIFIED POLYCLONAL ANTIBODY

CATALOG NUMBER: AB5048P **QUANTITY:** 25 µg

LOT NUMBER:

SPECIFICITY: Specific for the NMDAR1 containing the C2 splice variant insert in Western blots of rat brain extracts. The antibody does not recognize the NMDAR1 subunits that do not contain the C2 insert. By Western blot the antibody recognizes a protein with molecular weight of 120 kDa.

IMMUNOGEN: Peptide corresponding to the C-terminus of the rat NMDAR1 C2 splice variant.

APPLICATIONS: Western blot: 1:1,000 using ECL
Immunohistochemistry: 1:1,000
Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITY: Rat and mouse.

FORMAT: Affinity purified immunoglobulin.

PRESENTATION: Lyophilized from ammonium bicarbonate (5 mM) so some residual salt may also be present. Reconstitute with 50 µL of PBS. Contains no preservatives.

STORAGE/HANDLING: Maintain at the lyophilized material at -20°C for up to 12 months after date of receipt. After reconstitution maintain at -20°C in undiluted aliquots for up to 6 months. Avoid repeated freeze/thaw cycles.

REFERENCES:

Prybylowski, K.L. and Wolfe, B.B., Developmental differences in alternative splicing of the NR1 protein in rat cortex and cerebellum, *Dev. Brain Res.* **123**:143-150, 2000.

Al-Hallaq, R., Yasuda, R.P. and Wolfe, B.B.: Enrichment of NMDA NR1 splice variants and synaptic proteins in rat postsynaptic densities. *J. Neurochem*. **77**:110-119, 2001.

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2) Moriyoshi, K., Masu, M., Ishii, T., Shigemoto, R., Mizuno, N. and Nakanishi, S., Molecular cloning and characterization of the rat NMDA receptor, *Nature* (Lond.), **354**:31-37.1991.
3) Monyer, H., Sprengel, R., Schoepfer, R., Herb, A., Higuchi, M., Lomeli, H., Burnashev, N., Sakmann, B. and Seeburg, P., Heteromeric NMDA receptors: molecular cloning and functional distinction of subtypes, *Science*, **256**:1217-1221.1992.
4) Ishii, T., Moriyoshi, K., Sugihara, H., Sakurada, K., Kadotani, H., Yokoi, M., Akazawa, C., Shigemoto, R., Mizuno, N., Masu, M. and Nakanishi, S., Molecular characterization of the family of the N-methyl- D-aspartate receptor subunits, *J.Biol.Chem*.
5) Laurie, D.J. and Seeburg, P.H., Regional and developmental heterogeneity in splicing of the rat brain NMDAR1 mRNA, *J.Neurosci*., **14**:3180-3194.1994
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additional splice variants encoding human N-methyl-D-aspartate receptor (hNR1) subunits, *Gene*, **147**:303-304.1994.
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Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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