Polyclonal Anti-N- methyl-D-aspartate receptor 2B, *NMDAR2B* (Sepharose Bead Conjugate)

Catalogue No. PA1059-S

Lot No. 04F01

Ig type: rabbit

IgG **Size:** 100µg/vial

Specificity

Human, mouse, rat.
No cross reactivity
with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

A peptide mapping at the N-terminus of NMDAR2B of human origin, identical to the related mouse sequence.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN_3a_3 preservative.

Storage

Store at 4˚C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

The N-methyl-D-aspartate receptor 2B, also names as GRIN2B. The sequence of the predicted 1,484-amino acid human protein is 98% and 96% identical to the sequences of the rat and mouse Nmdar2b proteins, respectively. Nmdar2B gene is located on mouse chromosome 6 between Rho and Ly49 centromerically and Glb telomerically. Mapping of the human NMDAR2B receptor subunit gene (GRIN2B) to chromosome 12p12 overexpression of NMDA receptor 2B (NR2B) in the forebrains of transgenic mice leads to enhanced activation of NMDA receptors, facilitating synaptic potentiation in response to stimulation at 10-100 Hz.

REFERENCE

1. Mandich, P.; Schito, A. M.; Bellone, E.; Antonacci, R.; Finelli, P.; Rocchi, M.; Ajmar, F. : Mapping of the human NMDAR2B receptor subunit gene (GRIN2B) to chromosome 12p12. *Genomics* 22: 216-218, 1994. 2. Tang, Y.-P.; Shimizu, E.; Dube, G. R.; Rampon, C.; Kerchner, G. A.; Zhuo, M.; Liu, G.; Tsien, J. Z. : Genetic enhancement of learning and memory in mice. *Nature* 401: 63-69, 1999.

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