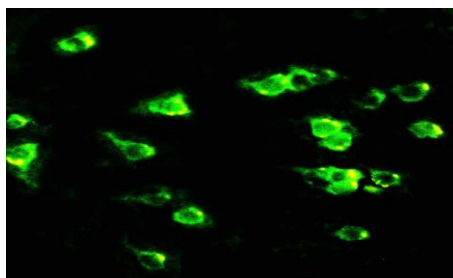




Polyclonal Anti-N- methyl-D-aspartate receptor 2B, **NMDAR2B**



Catalogue No. PA1059

Lot No. 04F01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunocytochemistry

Immunogen

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

Purity

Immunogen affinity purified.

Application

Western blot

At 1-2µg/ml with the appropriate system to detect NMDAR2B in cells and tissues.

Immunohistochemistry(P)

At 0.5-1µg/ml to detect NMDAR2B in formalin fixed and paraffin embedded tissues.

Immunocytochemistry

Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 50% glycerol, 0.9mg NaCl, 0.2mg Na₂HPO₄.

Reconstitution

1.2% sodium acetate or neutral PBS. If 0.5ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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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.