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

Catalogue No. PA1059

Lot No. 0101112g055997

Ig type: rabbit IgG

Size: 100μg/vial

Form: lyophilized

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human NMDAR2B (1131-1146aa, DFYLDQFRTKENSPHW), identical to the related mouse and rat sequence.

Purification

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	0.1-0.5μg/ml	Rat, Ms	Hu	-
IHC-P	0.5-1μg/ml	Rat	Hu,Ms	By Heat

Other applications have not been tested.
Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution

0.2ml of distilled water will yield a concentration of 500μg/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 a longer time.
Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(P).

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.