Polyclonal Anti-N- methyl-D-aspartate receptor 2B, \textit{NMDAR2B}

**Catalogue No.** PA1059

**Lot No.** 04F01

**Ig type:** rabbit IgG

**Size:** 100\(\mu\)g/vial

**Specificity**
Human, mouse, rat, rabbit.
No cross reactivity with other proteins.

**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 1-2\(\mu\)g/ml with the appropriate system to detect NMDAR2B in cells and tissues.

- **Immunohistochemistry (P)**
  At 0.5-1\(\mu\)g/ml to detect NMDAR2B in formalin fixed and paraffin embedded tissues.

- **Immunocytochemistry**
  Suitable

**Contents**
Each vial contains 50\% glycerol, 0.9mg NaCl, 0.2mg Na\(_2\)HPO\(_4\).

**Reconstitution**
1.2\% sodium acetate or neutral PBS. If 0.5ml of PBS is used, the antibody concentration will be 100\(\mu\)g/ml.

**Storage**
At -20\(^\circ\)C for one year. After reconstitution, at 4\(^\circ\)C for one month. It can also be aliquotted and stored frozen at -20\(^\circ\)C for longer time.

**Relative 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 IH(P) and IC.
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