

## ***Anti-GluN2B(GluR $\epsilon$ 2, NR2B)***

*(NMDA-type glutamate receptor subunit 2B)*

**Code Number** : GluRe2N-Rb-Af660 (rabbit, RRID : AB\_2571761)

: GluRe2C-Rb-Af300 (rabbit, RRID : AB\_2571762)

**Size** : 20  $\mu$ g and 50  $\mu$ g / See label on vial

(affinity-purified with antigen polypeptide)

**Formulation** : Liquid ; 200  $\mu$ g/ml in PBS with 0.05% NaN<sub>3</sub>.

**Storage** : Store at cool temp. (2-10°C)

The antibody can be stored at 2-10°C. The antibody can be also aliquotted and stored at -80°C for long-term storage. Avoid repeated freeze-thawing. Non-hazardrous. No MSDS required.

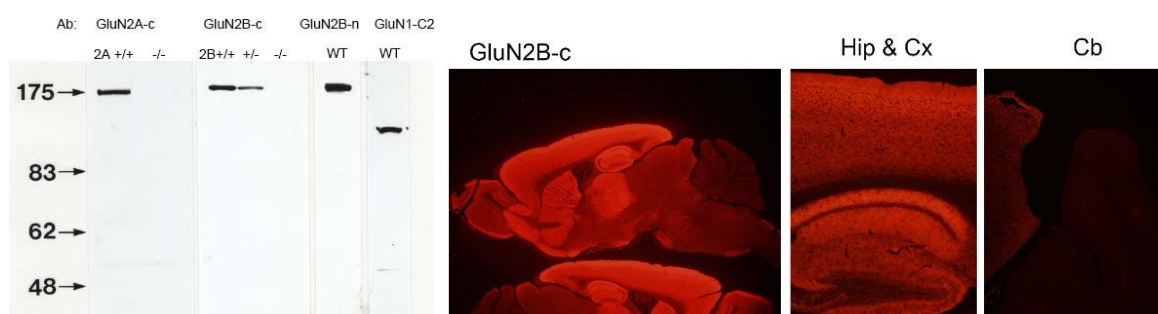
**Species** : rabbit, polyclonal

**Antigen** : mouse GluN2B (NR2B),

N-terminal 1-48 aa or C-terminal 1301-1456 aa by Kutsuwada et al. (1992) (D10651)

**Specificity** : mouse (others not tested)

Immunoblot detects a single protein band at 180 kDa, with no cross reactivity to other iGluR subunits, including GluN2A(GluR $\epsilon$ 1, NR2A). See the reference 1 for immunoblot and immunohistochemistry.



**Applications** : In general, affinity-purified antibody is used at around 1 microgram/ml for immunoblot and immunohistochemistry. The most appropriate concentration should be determined by users, because it depends on contents in given cells, tissues and organs.

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**Research Use** : For research use only, not for use in diagnostic procedures.

**Remarks** : For immunohistochemistry for neuronal iGluRs, users should adopt postembedding immunogold for electron microscopic detection and protease predigestion for light microscopic detection (see the below reference).

**Reference** : 1) Watanabe, M., Fukaya, M., Sakimura, K., Manabe, T., Mishina, M., and Inoue, Y. (1998) Selective scarcity of NMDA receptor channel subunits in the stratum lucidum (mossy fiber-recipient layer) of the hippocampal CA3 subfield. **Eur. J. Neurosci.** 10:478-487.

2) Mori, H., Manabe, T., Watanabe, M., Suzuki, N., Toki, S., Nakamura, K., Yagi, T., Kushiya, E., Takahashi, T., Inoue, Y., Sakimura, K., Mishina, M. (1998) Role of the carboxyl-terminal region of the GluR $\epsilon$ 2 subunit in synaptic localization of the NMDA receptor channel in vivo. **Neuron** 21:571-580.

3) Fukaya, M., Kato, A., Lovett, C., Tonegawa, S., Watanabe, M. (2003) Retention of NMDA receptor NR2 subunits in the lumen of endoplasmic reticulum in targeted NR1 knockout mice. **Proc. Natl. Acad. Sci. USA** 100:4855-4860.

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