

## ***Anti-GluN2A(GluRε1, NR2A)***

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

**Code Number** : GluRe1C-Rb-Af542 (rabbit, RRID : AB\_2571605)

**Size** : 20 µg and 50 µg / See label on vial  
(affinity-purified with antigen polypeptide)

**Formulation** : Liquid ; 200 µg/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

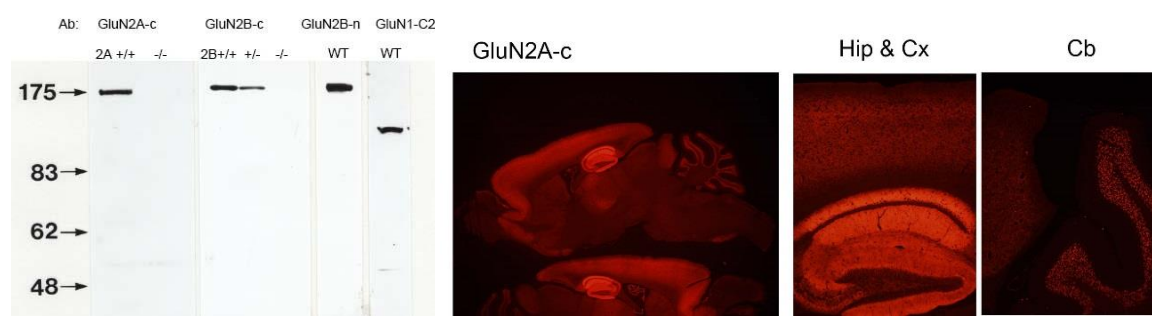
**Antigen** : mouse GluRε1 (NR2A),

C-terminal 1126-1408 aa by Meguro et al., 1992 (1148-1430aa in D10217)

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

Immunoblot detects a single protein band at 175kDa, with no cross reactivity to other iGluR subunits, including GluRε2 (NR2B).

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.

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

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**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). For glial GluR, these antigen-exposing methods are not necessary (unpublished information).

**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) 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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