Anti-GluN1-C2 (GluRζ1-C2,NR1-C2)

(NMDA-type glutamate receptor subunit 1)

Code Number : GluRz1-Rb-Af720 (rabbit, RRID : AB_2571604)

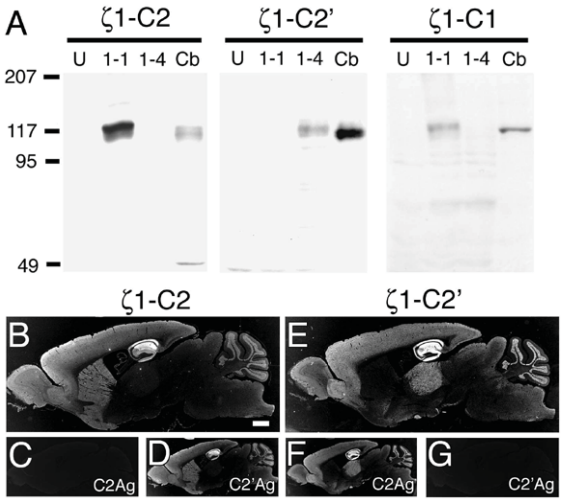
Size : 20 μg and 50 μg / See label on vial
(affinity-purified with antigen polypeptide)

Formulation : Liquid; 200 μg/ml in PBS with 0.05% NaN_3.

Storage : Store at 4˚C. The antibody can be stored at 4˚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 GluN1,
C-terminal C2 cassette 909-938 aa
(QNQKDTVLPRRAIEREEGQLQL
CSRHRES ; NM_008169).



Specificity : mouse (others not tested)
Immunoblot detects a singleprotein band at 120 kDa, with no cross reactivity to other iGluR subunits or to other C-terminal forms of GluN1. See the reference 3 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.

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) Yamada, K., Fukaya, M., Shimizu, H., Sakimura, K., Watanabe, M. (2001) NMDA receptor subunits GluRε1, GluRε3, and GluRζ1 are enriched at the mossy fiber-granule cell synapse in the adult mouse cerebellum. **Eur. J. Neurosci**.13:2025-2036.

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.

3) Abe, M., Fukaya, M., Yagi, T., Mishina, M., Watanabe, M*., Sakimura, K. (2004) NMDA Receptor GluRε/NR2 subunits are essential for postsynaptic localization and protein stability of GluRζ1/NR1 subunit. **J. Neurosci**., 24:.9292-9304.

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