

Anti-GluD2 –C (GluR δ 2)

(glutamate receptor subunit δ 2)

Code Number : GluRd2C (852-931) -Rb-Af500 (rabbit, RRID : AB_2571600)
: GluD2C (897-934) -Rb-Af1200 (rabbit, RRID : AB_2571601)
: GluD2C (897-934) -Go-Af1120 (goat, RRID : AB_2571602)
: GluD2C (897-934) -GP-Af1090 (guinea pig, RRID : AB_2571603)

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

Formulation : Liquid ; 200 μ g/ml in PBS with 0.05% NaN₃.

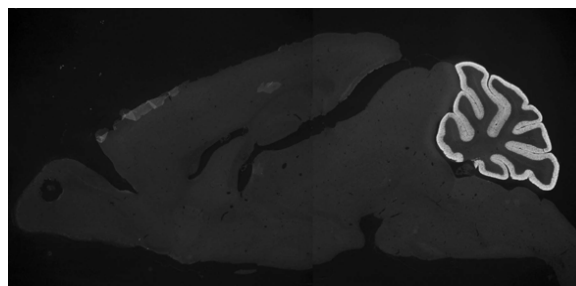
Storage : Store at 4°C. The antibody can be stored at 4°C. The antibody can be also aliquotted and stored at -80°C for long-term storage. Avoid repeated freeze-thawing.

Non-hazardrous. No MSDS required.

Species : rabbit, polyclonal

Antigen : mouse GluD2 (D13266)

C-terminal 852-931 aa or 897-934 aa,
intracellular epitope



Specificity : mouse (others not tested)

The specificity has been verified by knockout mouse brains. In particular, GluR δ 2C (897-934 aa) antibody has no cross reactivity to GluD1 (see a reference of Konno et al., 2014).

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) Araki K, Meguro H, Kushiya E, Takayama C, Inoue Y, Mishina M. S (1993) Selective expression of the glutamate receptor channel delta 2 subunit in cerebellar Purkinje cells. *Biochem Biophys Res Commun.* 197:1267-1276.
- 2) Takayama, C., Nakagawa, S., Watanabe, M., Mishina, M. and Inoue, Y. (1995) Light- and electron-microscopic localization of the glutamate receptor channel $\delta 2$ subunit in the mouse Purkinje cell. *Neurosci. Lett.* 188:89-92.
- 3) Takeuchi, T., Miyazaki, T., Watanabe, M., Mori, H., Sakimura, K., Mishina, M. (2005) Control of synaptic connection by glutamate receptor $\delta 2$ in the mature cerebellum. *J. Neurosci.* 25:2146-2156.
- 4) Yamasaki M, Miyazaki T, Azechi H, Abe M, Natsume R, Hagiwara T, Aiba A, Mishina M, Sakimura K, Watanabe M: Glutamate receptor GluRd2 is essential for input pathway-dependent regulation of synaptic AMPAR contents in cerebellar Purkinje cells. *J. Neurosci.*, 31:3362-3374, 2011.
- 5) Konno K, Matsuda K, Nakamoto C, Uchigashima M, Miyazaki T, Yamasaki M, Sakimura K, Yuzaki M, Watanabe M: Enriched expression of GluD1 in higher brain regions and its involvement in parallel fiber-interneuron synapse formation in the cerebellum. *J. Neurosci.* 34:7412-7424, 2014.