Anti-mGluR1α

(metabtropic glutamate receptor-1α)

Code Number : mGluR1a-Rb-Af811 (rabbit, RRID : AB_2571799)
: mGluR1a-Go-Af1220 (goat, RRID : AB_2571800)
: mGluR1a-GP-Af660 (guinea pig, RRID : AB_2571801)

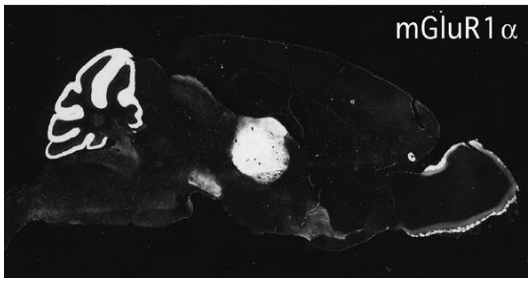
Size : 20 μg and 50 μg / See label on vial
(affinity-purified with antigen polypeptide)

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

Storage : Store at 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 / guinea pig / goat, polyclonal

Antigen : mouse mGluR1a, 945-1127 aa (NM_016976)



Specificity : mouse (others not tested)
Immunoblot detects a single protein band at 145 kDa with no cross reactivity to mGluR5.

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 : All rabbit, guinea pig and goat antibodies are similar in titer and specificity.

Reference : 1) Tanaka, J., Nakagawa, S., Yamasaki, M., Fukaya, M., Iwanaga, T., Sakimura, K., Kano, M., Simon, M.I., Inoue, Y., Watanabe, M. (2000) Gq protein α subunits Gαq and Gα11 are localized at postsynaptic extra-junctional membrane of cereballar Purkinje cells and hippocampal pyramidal cells. **Eur. J. Neurosci**. 12:781-792.

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2) Nakamura, M., Sato, K., Fukaya, M., Araishi, K., Aiba, A., Kano, M., Watanabe, M. (2004) Signaling complex formation of phospholipase Cβ4 with mGluR1α and IP3R1 at the perisynapse and endoplasmic reticulum in the mouse brain. **Eur. J. Neurosci** 20:2929-2944

3) Yoshida, T., Fukaya, M., Uchigashima, M., Kamiya, H., Kano, M., Watanabe, M. (2006) Localization of diacylglycerol lipase-α around postsynaptic spine suggests close proximity between production site of an endocannabinoid, 2-arachidonoyl-glycerol, and presynaptic cannabinoid CB1 receptor. **J. Neurosci**. 26: 4740-4751.

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