

## *Anti-mGluR1 $\alpha$*

*(metabotropic glutamate receptor-1 $\alpha$ )*

**Code Number** : mGluR1a-Rb-Af811 (rabbit, RRID : AB\_2571799)  
                  : mGluR1a-Go-Af1220 (goat, RRID : AB\_2571800)  
                  : mGluR1a-GP-Af660 (guinea pig, RRID : AB\_2571801)

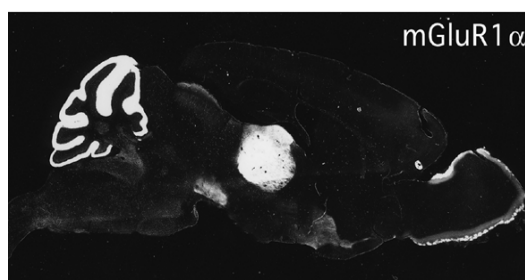
**Size** : 20  $\mu$ g and 50  $\mu$ g / See label on vial  
(affinity-purified with antigen polypeptide)

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

**Storage** : Store at 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 / 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  $\alpha$  subunits G $\alpha$ q and G $\alpha$ 11 are localized at postsynaptic extra-junctional membrane of cerebellar Purkinje cells and hippocampal pyramidal cells. *Eur. J. Neurosci.* 12:781-792.

- 2) Nakamura, M., Sato, K., Fukaya, M., Araishi, K., Aiba, A., Kano, M., Watanabe, M. (2004) Signaling complex formation of phospholipase C $\beta$ 4 with mGluR1 $\alpha$  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- $\alpha$  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.