

Anti-GABA_A receptor- α 1

Code Number : GABAARa1-Rb-Af660 (rabbit, RRID : AB_2571571)
 : GABAARa1-GP-Af440 (guinea pig, RRID : AB_2571572)

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 cool temp. (2-10°C)

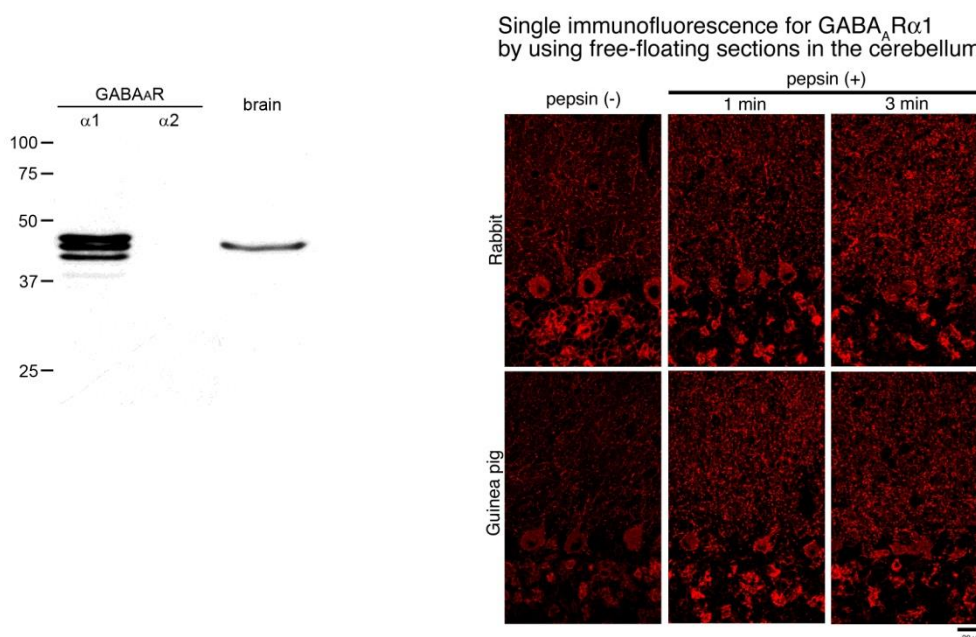
The antibody can be stored at 2-10°C. The antibody can be also aliquotted and stored at -80 °C for long-term storage. Avoid repeated freeze-thawing. Non-hazardrous. No MSDS required.

Species : rabbit / guinea pig, polyclonal

Antigen : mouse GABA_AR α 1, 369-386aa (NM_010250)

Specificity : mouse (others not tested)

Immunoblot with the antibodies detects a band at 43 kDa in mouse brain homogenates and multiple bands in HEK cell lysates transfected with GABA_AR α 1, but not GABA_AR α 2. Immunohistochemistry labels synaptic membrane at GABAergic synapses and also labels extrasynaptic neuronal surface.



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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 : Detection of synaptic GABA_AR α 1 is enhanced by mild section pretreatment with pepsin, due to better antibody penetration into postsynaptic membrane.

Reference : 1) Ichikawa R, Yamasaki M, Miyazaki T, Konno K, Hashimoto K, Tatsumi H, Inoue Y, Kano M, Watanabe M: Developmental switching of perisomatic innervation from climbing fibers to basket cell fibers in cerebellar Purkinje cells. **J. Neurosci.** 31:16916-16927, 2011.

2) Iwakura A, Uchigashima M, Miyazaki T, Yamasaki M, Watanabe M: Lack of molecular-anatomical evidence for GABAergic influence upon axon initial segment of cerebellar Purkinje cells by the pinceau formation. **J. Neurosci.** 32:9438-9448.

3) Kudo T, Uchigashima M, Miyazaki T, Konno K, Yamasaki Y, Yanagawa Y, Minami M, Watanabe M: Three types of neurochemical projection from the bed nucleus of the stria terminalis to the ventral tegmental area in adult mice. **J. Neurosci.**, in press

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