Anti-VGAT (VIAAT)

(vesicular GABA transporter)

Code Number : VGAT-Rb-Af500 (rabbit, RRID : AB_2571622)
: VGAT-Go-Af620 (goat, RRID : AB_2571623)
: VGAT-GP-Af1000 (guinea pig, RRID : AB_2571624)

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

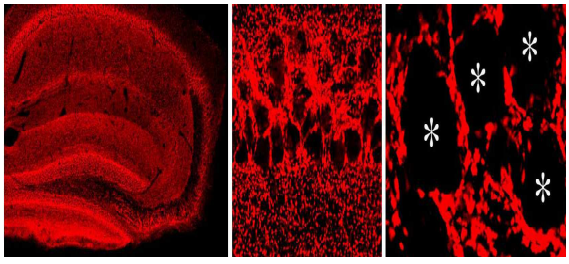
Formulation : Liquid ; 200 μg/ml in PBS with 0.05% NaN_3.
(affinity-purified with antigen polypeptide)

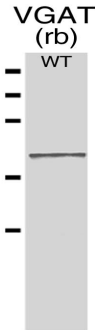
Storage : Store at 4˚C. The antibody can be stored at 4˚C. The antibody can be also aliquotted and stored at -80˚C for long-term storage. Avoid repeated freeze-thawing. Non-hazardrous. No MSDS required.

Species : rabbit / guinea pig / goat , polyclonal

Antigen : mouse VGAT, 31-112 aa (BC052020)

Specificity : mouse (others not tested)
Immunoblot detects a single protein band at 57 kDa.
This selectively stains GABAergic neurons, particularly their terminals.





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 & Development
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Research Use : For research use only, not for use in diagnostic procedures.

Remarks : Rabbit, guinea pig and goat antibodies are similar in the titer and specificity.

Reference : 1) Fukudome, Y., Ohno-Shosaku, T., Matsui, M., Omori, Y., Fukaya, M., Taketo, M., Watanabe, M., Manabe, M., Kano, M. (2004) Two distinct classes of muscarinic action on hippoccampal inhibitory synapses: M2-mediated direct suppression and M1/M3-mediated indirect suppression through endocannabinoid signaling. **Eur. J. Neurosci**. 19:2682-2692.

2) Miyazaki, T., Fukaya, M., Shimizu, H, Watanabe, M. (2003) Developmental switching of vesicular glutamate transporters at parallel fiber-Purkinje cell synapses. **Eur. J. Neurosci** 17:2563-2572.

3) Miura, E., Fukaya, M., Sato, T., Sugihara, K., Asano, M., Yoshioka, K., Watanabe, M. (2006) Expression and distribution of JNK/SAPK-associated scaffold protein JSAP1 in developing and adult mouse brain. **J. Neurochem**. 97:1431-1446.

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