Anti-Synaptophysin

Code Number : Syn-Rb-Af300 (rabbit, RRID : AB_2571842)
: Syn-Go-Af1300 (goat, RRID : AB_2572271)
: Syn-GP-Af300 (guinea pig, RRID : AB_2571843)

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

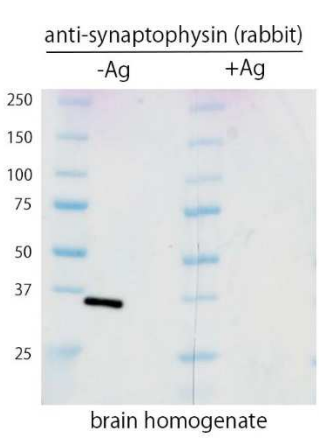
Formulation : Liquid ; 200 μg/ml in PBS with 0.05% NaN_3.
(affinity-purified with antigen polypeptide)

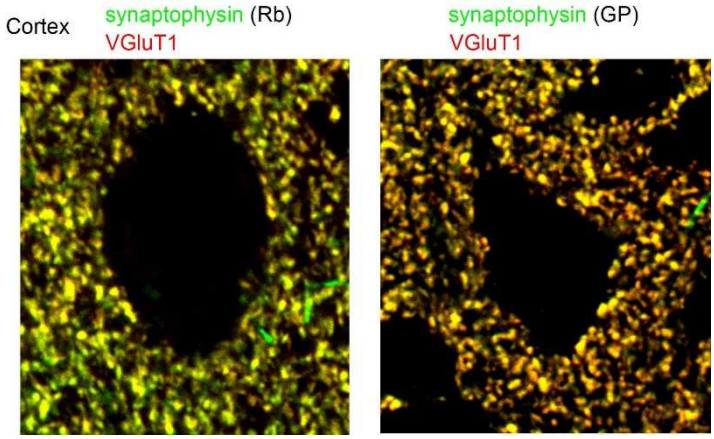
Storage : Store at 4˚C. The antibody can be stored at 4˚C. The antibody can be also aliquotted and stored at -80˚C for long-term storage. Avoid repeated freeze-thawing. Non-hazardrous. No MSDS required.

Species : rabbit / guinea pig, polyclonal

Antigen : mouse synaptophysin, 205-259 aa (X95818)

Specificity : mouse (others not tested)
Immunoblot detects a single protein band at 38 kDa. This selectively stains nerve 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.

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

Remarks: Immunohistochemical patterns with use of rabbit and guinea pig antibodies are essentially the same, with specific labeling of nerve terminals. In the cerebral cortex and hippocampus, synpatophysin is exclusively overlapped with other terminals markers, including vesicular glutamate transporter VGluT1. For use in immunoblot, rabbit antibody is recommended.

Reference : 1) Fukaya, M., Watanabe, M. (2000) Improved immunohistochemical detection of postsynaptically-located PSD-95/SAP90 protein family by protease section pretreatment. A study in the adult mouse brain. **J. Comp. Neurol.** 426:572-586.
2) Yamada, K., Fukaya, M., Shimizu, H., Sakimura, K., Watanabe, M. (2001) NMDA receptor subunits GluRε1, GluRε3, and GluRζ1 are enriched at the mossy fiber-granule cell synapse in the adult mouse cerebellum. **Eur. J. Neurosci.**13:2025-2036.

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