Anti-Synapsin-I

Code Number : Synapsin-Ia-Rb-Af670 (rabbit, RRID : AB_2636934)
: Synapsin-Ib-Rb-Af890 (rabbit, RRID : AB_2636935)
: Synapsin-Ib-GP-Af710 (guinea pig, RRID : AB_2636936)

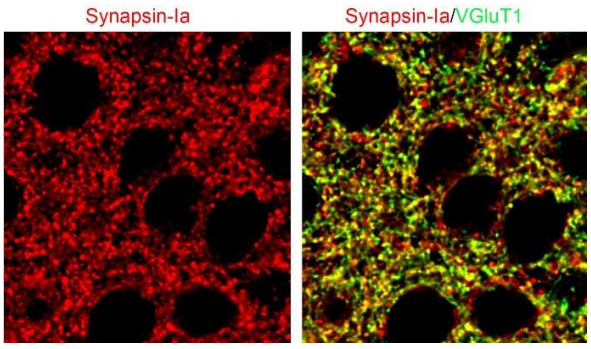
Size : 20 μg and 50 μg / See label on vial
(affinity-purified with antigen polypeptide)

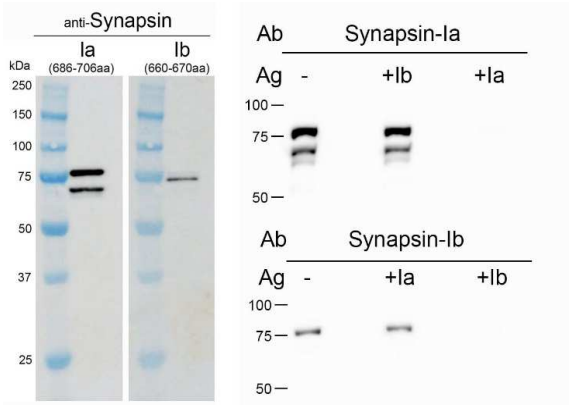
Formulation : Liquid ; 200 μg/ml in PBS with 0.05% NaN_3.

Storage : Store at 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 synapsin-Ia (686-706aa, NM_013680 ; DEVKAETIRSLRKSFASLFSD) and mouse synapsin-Ib (660-670aa, NM_001110780 ; QLKASPSQAQP). These C-terminal sequences are unique to Ia and Ib splice variants of synapsin-I, respectively. Due to high sequence similarity, however, the antibody directed against synapsin-Ia 686-706aa should also recognize the C-termini of synapsin IIa (DEAKAETIRSLRKSFASLFSD) and III (DEAKAETIRNLRKSFASLFSD). In contrast, the C-terminus used to raise Synapsin-Ib antibody is unique among five synapsin isoforms.





Specificity : In immunoblot, synapsin-Ia antibody detects three protein bands at 60-75 kDa (presumably representing synapsin-Ia, IIa, and III), while synapsin-Ib antibody detect a single

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protein band at at 75 kDa. When the same blotted membrane is successively immunoreacted with Ia and Ib antibodies, the size of detected bands at around 75 kDa is slightly different (left). Preabsorption of Ia antibody with Ia antigen peptide (686-706aa), but not Ib (660-670aa), abolishes immunosignals (right upper). Likewise, preabsorption of Ib antibody with Ib peptide, but not Ia, abolishes immunosignals (right lower), indicating no cross-reacitivity to the other isoforms. In immunohistochemistry, both of synapsin-Ia and -Ib antibodies selectively stains nerve terminals in similar patterns.

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 :

Reference :

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