



Product Information Sheet

Monoclonal Anti-Synaptophysin

Catalogue No. MA1091

Lot No. 08A12

Clone: Syn-58

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

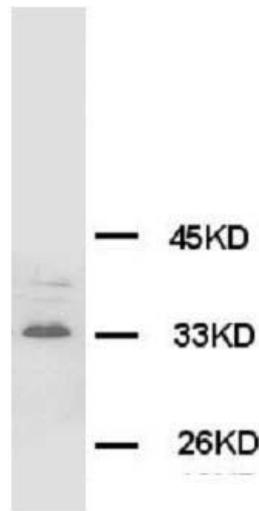
Rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(F)



Immunogen

Rat retina synaptosome.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 0.5-1µg/ml with the appropriate system to detect synaptophysin in cells and tissues.

Immunohistochemistry(F)

At 1-2µg/ml to detect synaptophysin in formalin or acetone fixed tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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BACKGROUND

Synaptophysin (SYP) is an integral membrane protein of small synaptic vesicles in brain and endocrine cells. Ozcelik et al. (1990) concluded that the gene has 7 exons distributed over about 20 kb. SYP mapped the SYP locus to Xp11.23-p11.22. Regionalization of the gene on the X chromosome was also done with hamster/human hybrid cells in which various portions of the human X chromosome were present.

REFERENCE

- 1 McMahon, H. T.; Bolshakov, V. Y.; Janz, R.; Hammer, R. E.; Siegelbaum, S. A.; Sudhof, T. C. : Synaptophysin, a major synaptic vesicle protein, is not essential for neurotransmitter release. *Proc. Nat. Acad. Sci.* 93: 4760-4764, 1996.
- 2 Cremin, S. M.; Greer, W. L.; Bodok-Nutzati, R.; Schwartz, M.; Peacocke, M.; Siminovitch, K. A. : Linkage of Wiskott-Aldrich syndrome with three marker loci, DXS426, SYP and TFE3, which map to the Xp11.3-p11.22 region. *Hum. Genet.* 92: 250-253, 1993.
- 3 Ozcelik, T.; Lafreniere, R. G.; Archer, B. T., III; Johnston, P. A.; Willard, H. F.; Francke, U.; Sudhof, T. C. : Synaptophysin: structure of the human gene and assignment to the X chromosome in man and mouse. *Am. J. Hum. Genet.* 47: 551-561, 1990.