BOSTER
Antibody and ELISA Experts

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Monoclonal Anti- Synaptophysin Antibody

Catalog Number: MA1091

Description

Lot No.	13A12
Clone	SVP-38
Size	100μg/vial
Form	lyophilized
Ig type	mouse IgG1
Specificity	No cross reactivity with other proteins.
Species	Human, rat
Immunogen	Rat retina synaptosome.
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN_3 as preservative.

Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.5-1μg/ml	Human, Rat	-
Immunohistochemistry (Paraffin-embedded Section)	1-2μg/ml	Human, Rat	By Heat
Immunohistochemistry (Frozen Section)	1-2μg/ml	Human, Rat	-

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

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 a longer time.
Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1001 in WB, supported by SA1021 in IHC(P) and IHC(F).

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.