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CEDARLANE[®] 
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Human Synaptophysin
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL2702AP	Purified	200 µg	1.0 mg/ml	CLCMGM00
CL2702AF5	Alexa Fluor [®] 594	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Mouse IgM

DESCRIPTION:

Synaptophysin is a 38 KDa synaptic vesicle (SV) glycoprotein containing four transmembrane domains. It is present in SVs of the neuroendocrine system, brain, spinal cord, retina, adrenal medulla and at neuromuscular junctions. synaptophysin acts as a marker for neuroendocrine tumours and has been used to study the distribution of synapses within the brain due to its ubiquity at these regions.

Although the exact function of synaptophysin is still unknown, several lines of evidence suggest it may have multiple important roles in SV exo and endocytosis. These include regulation of SNARE assembly, fusion pore formation initiating neurotransmitter release and activation of SV endocytosis. Additionally, it is thought that synaptophysin may have an important role in SV biogenesis.

PRESENTATION:

Purified: Purified IgM buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Affinity Chromatography). For maximal recovery of contents, please quick-spin vial before opening.

AF594: AF594 conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/mL.

STORAGE/STABILITY:

Store at +4°C. DO NOT FREEZE **AF594** conjugates. For long term storage (**Purified**), aliquot and freeze unused portion at -20°C in volumes appropriate for single use. Avoid freeze thaw cycles.

APPLICATIONS:

This antibody is suitable for use in Western Blot, ELISA, Flow Cytometry and Immunofluorescence (1:500 dilution).

SPECIFICATIONS:

Clone: SP15

Continued Overleaf....

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Hybridoma Production:

Immunization: Mouse monoclonal antibodies raised against Crude human synaptic immunoprecipitate.

Specificity: This antibody is specific for Human Synaptophysin. [also reacts with Rat, Hamster and Pig]

Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. Honer, WG et al. Cingulate **cortex synaptic terminal proteins and neural cell adhesion molecule in schizophrenia**. Neuroscience. 78(1), 99-110, 1997.
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5. Young, CE et al. **SNAP-25 Deficit and Hippocampal Connectivity in Schizophrenia**. Cereb Cortex. 8(3), 261-8, 1998.

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