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ABG55507: SYP/Synaptophysin Antibody (H-8)

Clonality :	Monoclonal
Clone Name :	H-8
Application :	IP,ELISA,WB,IF
Reactivity :	Rat,Mouse,Human
Alternative Name :	Synaptophysin
Isotype :	IgG1 kappa light chain

Description

SYP/Synaptophysin Antibody (H-8) is an IgG1 κ mouse monoclonal SYP antibody that detects SYP of mouse, rat and human origin by WB, IP, IF, IHC(P) and ELISA. SYP/Synaptophysin Antibody (H-8) is available as the non-conjugated anti-SYP antibody form, as well as multiple conjugated forms of anti-SYP antibody, including agarose, HRP, PE, FITC and multiple Alexa Fluor® conjugates. Synaptic vesicles participate in a cycle of fusion with the plasma membrane and reformation by endocytosis. Synaptic vesicle protein synaptophysin (SYP) is targeted to early endosomes in transfected fibroblasts and in neuroendocrine cells. SYP is an N-glycosylated intergral membrane protein found in neurons and endocrine cells that associates into hexamers to form a large conductance channel. SYP contains four transmembrane domains and may function as a gap juction-like channel. Membrane cholesterol specfically interacts with SYP to play a role in vesicle formation. Synaptobrevin (VAMP) also binds to SYP and the resultant complex is upregulated during neuronal development, but is absent in exocytosis fusion complex. Thus, the synaptophysin-synaptobrevin complex is not essential for exocytosis, but rather provides a pool of synaptobrevin for exocytosis. In addition, the tail domain of brain Myosin V also forms a stable complex with synaptobrevin II and SYP, and this complex is disassembled upon the depolarization-induced entry of Ca2+ into intact nerve endings.

Product Info

Amount : 200 µg/ml

Content : Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin

Amino Acid : 221-313