

bs-21519R**[Primary Antibody]****Synaptotagmin 1/SYT1 Rabbit pAb****BioSS**
ANTIBODIES

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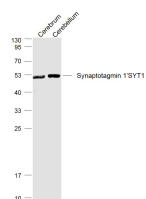
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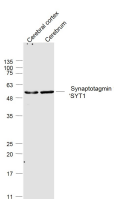
400-901-9800

— DATASHEET —

<p>Host: Rabbit</p> <p>Clonality: Polyclonal</p> <p>GeneID: 6857</p> <p>Target: Synaptotagmin 1/SYT1</p> <p>Immunogen: KLH conjugated synthetic peptide derived from human Synaptotagmin 1/SYT1: 61-160/422. < Cytoplasmic ></p> <p>Purification: affinity purified by Protein A</p> <p>Concentration: 1mg/ml</p> <p>Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.</p> <p>Background: The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin participates in triggering neurotransmitter release at the synapse. The first C2 domain mediates Ca(2+)-dependent phospholipid binding. The second C2 domain mediates interaction with Stonin 2. Synaptotagmin may have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neuexins, syntaxin and AP2.</p>	<p>Applications: WB (1:500-2000)</p> <p>Reactivity: Mouse (predicted: Human, Rat, Rabbit, Sheep, Cow, Chicken, Horse)</p> <p>Predicted MW.: 48 kDa</p> <p>Subcellular Location: Cell membrane</p>
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— VALIDATION IMAGES —

Sample: Cerebrum (Mouse) Lysate at 40 ug
Cerebellum (Mouse) Lysate at 40 ug Primary: Anti-Synaptotagmin 1' SYT1 (bs-21519R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 48 kD



Sample: Cerebral cortex (Mouse) Lysate at 40 ug
Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-Synaptotagmin 1' SYT1 (bs-21519R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 48 kD

— SELECTED CITATIONS —

- **[IF=3.617]** Ru-Meng Wei. et al. Altered cognition and anxiety in adolescent offspring whose mothers underwent different-pattern maternal sleep deprivation, and cognition link to hippocampal expressions of Bdnf and Syt-1. FRONT BEHAV NEUROSCI. 2022; 16: 1066725 WB ;Mouse. 36570704