

**bs-3501R****[ Primary Antibody ]**

## Synapsin 1 Rabbit pAb

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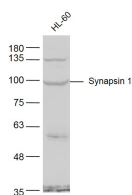
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400-901-9800

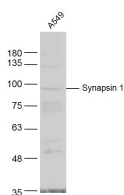
### — DATASHEET —

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)  <b>Reactivity:</b> Human, Rat (predicted: Mouse, Rabbit, Pig)  <b>Predicted MW.:</b> 85 kDa  <b>Subcellular Location:</b> Cell membrane ,Cytoplasm
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 6853	<b>SWISS:</b> P17600	
<b>Target:</b> Synapsin 1		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Synapsin I: 201-300/705.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family plays a role in regulation of axonogenesis and synaptogenesis. The protein encoded serves as a substrate for several different protein kinases and phosphorylation may function in the regulation of this protein in the nerve terminal. Mutations in this gene may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]		

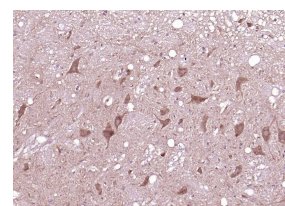
### — VALIDATION IMAGES —



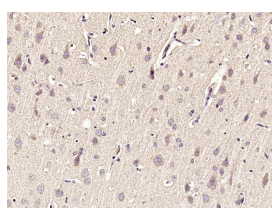
Sample: HL-60(Human) Cell Lysate at 40 ug  
Primary: Anti-Synapsin 1 (bs-3501R) at 1/300  
dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 85 kD Observed band size: 85 kD



Sample: A549(Human) Cell Lysate at 40 ug  
Primary: Anti-Synapsin 1 (bs-3501R) at 1/300  
dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 85 kD Observed band size: 85 kD



Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Synapsin 1 ) Polyclonal Antibody, Unconjugated (bs-3501R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded

**Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

(Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (Synapsin 1) Polyclonal Antibody, Unconjugated (bs-3501R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.

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## — SELECTED CITATIONS —

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- **[IF=13.6]** Huayang Tang. et al. The role of mTORC1/TFEB axis mediated lysosomal biogenesis and autophagy impairment in fluoride neurotoxicity and the intervention effects of resveratrol. J HAZARD MATER. 2024 Jan;:133634 WB ;Rat. 38335616
- **[IF=6.843]** Jian Ren. et al. Hydrophilic hindering and hydrophobic growing: a vesicle glycometabolism multi-drug combination therapeutic against Alzheimer's disease. Biomater Sci-Uk. 2021 Aug;: WB ;Mouse. 10.1039/D1BM00696G
- **[IF=4.966]** Hui Zhen. et al. The Wnt/Ca<sup>2+</sup> signaling pathway is essential for the regeneration of GABAergic neurons in planarian *Dugesia japonica*. Faseb J. 2020 Dec;34(12):16567-16580 IHC ;Planarians. 33094857
- **[IF=4.679]** Dan Wu. et al. Protective effect of alpha-lipoic acid on bisphenol A-induced learning and memory impairment in developing mice: nNOS and Keap1/Nrf2 pathway. Food Chem Toxicol. 2021 Aug;154:112307 IHC ;Mouse. 34058234
- **[IF=3.37]** Dan Wu et al. Impairment of learning and memory induced by perinatal exposure to BPA is associated with ERα-mediated alterations of synaptic plasticity and PKC/ERK/CREB signaling pathway in offspring rats. Brain Res Bull. 2020 Aug;161:43-54. IHC ;Rat. 32380187