

bs-11365R**[Primary Antibody]****SV2B Rabbit pAb****Bioss**
ANTIBODIES

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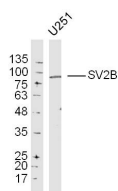
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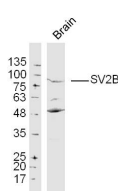
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— DATASHEET —

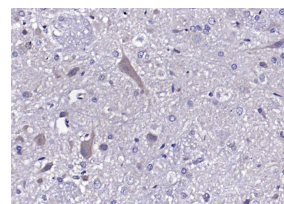
Host: Rabbit Clonality: Polyclonal GeneID: 9899 Target: SV2B Immunogen: KLH conjugated synthetic peptide derived from human SV2B: 401-500/683. < Extracellular > Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: In all vertebrates, SV2 proteins are abundant, hydrophobic, membrane glycoproteins that are expressed as two major isoforms, SV2A and SV2B, and one minor isoform, SV2C. SV2 proteins are differentially expressed in the brain and are present on all synaptic vesicles, independent of transmitter type. SV2A is abundantly expressed in the subcortex, specifically in the synaptic vesicles of all presynaptic nerve terminals, and also in most neuroendocrine secretory granules. SV2B displays a more restricted pattern of expression in that it is only present on a small subset of synapses in the hippocampus and cortex. SV2A and SV2B are functionally redundant and are required for maintaining normal brain function in vertebrates. SV2A and SV2B mediate synaptic transmission by regulating cytoplasmic Ca ²⁺ levels in the nerve terminal during repetitive stimulation.	Isotype: IgG SWISS: Q6IAR8 Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse, Rat (predicted: Rabbit, Chicken) Predicted MW.: 77 kDa Subcellular Location: Cell membrane ,Cytoplasm
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— VALIDATION IMAGES —

Sample: U251 Cell (Human) Lysate at 30 ug
Primary: Anti- SV2B (bs-11365R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 77 kD
Observed band size: 77 kD



Sample: Brain (Mouse) Lysate at 40 ug Primary:
Anti- SV2B (bs-11365R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 77 kD
Observed band size: 77 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; Antibody incubation with (SV2B) Polyclonal Antibody, Unconjugated (bs-11365R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=2.9]** Ekaterina P. Aleksandrova. et al. Audiogenic kindling activates glutamatergic system in the hippocampus of rats with genetic predisposition to audiogenic seizures. BRAIN RES. 2024 Apr;1829:148792 WB ;Rat. 38325559
- **[IF=2.7]** Ekaterina P. Aleksandrova. et al. Aging of Krushinsky-Molodkina audiogenic rats is accompanied with

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pronounced neurodegeneration and dysfunction of the glutamatergic system in the hippocampus. BRAIN RES. 2024
Oct;;149294 WB ;Rat. 39461667