
SV2A Rabbit pAb

Catalog Number: bs-21382R

Target Protein: SV2A

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Mouse, Rat (predicted:Human, Pig, Cow, Dog, Horse)

Predicted MW: 83 kDa

Entrez Gene: 9900

Swiss Prot: Q7L0J3

Source: KLH conjugated synthetic peptide derived from human SV2A: 621-720/742.

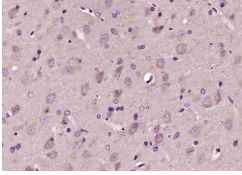
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

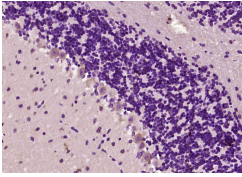
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: SV2s (Synaptic Vesicle protein 2) are integral membrane glycoproteins present in all synaptic vesicles. They have 12 transmembrane domains predicted by sequence analysis. There are three characterized isoforms, SV2A, SV2B and SV2C. SV2A is expressed ubiquitously throughout the brain. SV2B has a more restricted distribution with varying degrees of coexpression with SV2A. SV2C is more closely related to SV2A but shows a very restricted expression pattern. The highest expression levels were observed in phylogenetically old brain areas like pallidum, the midbrain and the olfactory bulb. SV2A is probably involved in the maintenance of a pool of synaptic vesicles competent for calcium-stimulated exocytosis. SV2A is a highly glycosylated synaptic vesicle protein with homology to transmembrane transporters.

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); 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 (SV2A) Polyclonal Antibody, Unconjugated (bs-21382R) 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 (mouse cerebellum tissue); 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 (SV2A) Polyclonal Antibody, Unconjugated (bs-21382R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=4.6] Wang Yu. et al. BI1 Activates Autophagy and Mediates TDP43 to Regulate ALS Pathogenesis. MOL NEUROBIOL. 2024 Jul;:1-43 IF ;
Mouse . 38954254