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SV2A Rabbit pAb

Catalog Number: bs-2407R

Target Protein: SV2A
Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: Flow-Cyt (1ug/test)

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

Predicted MW: 83 kDa

Subcellular Cell membrane, Cytoplasm

Locations:

Entrez Gene: 9900

Swiss Prot: Q7L0J3

Source: KLH conjugated synthetic peptide derived from human SV2A: 451-550/743.

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

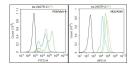
ubiquitously throughout the brain. SV2B has a more restricted distribution with varying degrees of coexpression with SV2A. SV2C is more closely related to SV2A but shows a very

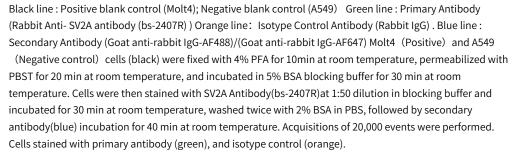
restricted expression pattern. The highest expression levels were observed in

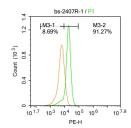
phylogenetically old brain areas like pallidum, the midbrain and the olfactory bulb. SV2A is probably involved in the maintenance of a pool of synaptic vesicles competent for calciumstimulated exocytosis. SV2A is a highly glycosylated synaptic vesicle protein with homology

 $to\ transmembrane\ transporters.$

VALIDATION IMAGES







Blank control:Molt-4. Primary Antibody (green line): Rabbit Anti-SV2A antibody (bs-2407) Dilution: $1\mu g/10^6$ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: $1\mu g/test$. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 20% PBST for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=9] Wang Xiaoling. et al. Synaptic vesicle glycoprotein 2 A in serum is an ideal biomarker for early diagnosis of Alzheimer's disease. ALZHEIMERS RES THER. 2024 Dec;16(1):1-18 IF; MOUSE . 38615037