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SV2 C

Cat.No. 119 203; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 μg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 μl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) (see remarks) IP: yes ICC: 1 : 500 IHC: 1 : 200 IHC-P/FFPE: 1 : 200
Immunogen	Synthetic peptide corresponding to AA 2 to 16 from rat SV2C (UniProt Id: Q9Z2I6)
Reactivity	Reacts with: human (Q496J9), rat (Q9Z2I6), mouse (Q69ZS6), cow, dog. Other species not tested yet.
Specificity	Specific for SV 2C.
matching control	119-2P
Remarks	WB : SV 2 aggregates after boiling, making it necessary to run SDS-PAGE only with non-boiled samples.

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

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, **SV2 A**, **SV2 B** and **SV2 C**. SV2 A is expressed ubiquitously throughout the brain and is probably involved in the maintenance of a pool of synaptic vesicles competent for calcium- stimulated exocytosis. SV2 B has a more restricted distribution with varying degrees of coexpression with SV2 A. SV2 C is more closely related to SV2 A 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. SV2 expression has also been observed in other organs. In kidney it localizes to podocytes.

Selected References SYSY Antibodies

Entry of a recombinant, full-length, atoxic tetanus neurotoxin into Neuro-2a cells. Blum FC, Przedpelski A, Tepp WH, Johnson EA, Barbieri JT Infection and immunity (2014) 82(2): 873-81. **ICC; tested species: mouse**

Selected General References

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The synaptic vesicle protein SV2 is a novel type of transmembrane transporter. Feany MB, Lee S, Edwards RH, Buckley KM Cell (1992) 70(5): 861-7.