

bs-1833R**[Primary Antibody]****BioSS**
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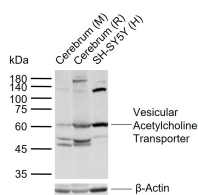
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Vesicular Acetylcholine Transporter Rabbit pAb**— DATASHEET —**

Host: Rabbit Clonality: Polyclonal GeneID: 6572 Target: Vesicular Acetylcholine Transporter Immunogen: KLH conjugated synthetic peptide derived from human VAT: 201-300/532. 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: Vesicular Acetylcholine Transporter (VACHT), (~70kD protein), belongs to the family of vesicular monoamine transporters (VMATs), which include VMAT1 and VMAT2 and the C.elegans putative ACh transporter unc-17. Members of this family function to concentrate neurotransmitters into synaptic vesicles through exchange of protons for neurotransmitters. VACHT is a functional transporter for the neurotransmitter acetylcholine (ACh). ACh is synthesized in the cytoplasm by choline acetyl transferase (ChAT) and transported by VACHT into synaptic vesicles where it is stored until released. After release from presynaptic nerve terminals ACh is hydrolyzed by extracellular ACh-esterases (AChE) to choline and acetate. VACHT mRNA is expressed in all known major cholinergic neurons in the central and peripheral nervous system. VACHT is abundantly expressed in the CNS and is mainly localized in small synaptic vesicles in cholinergic nerve terminals. VACHT provides a specific marker for cholinergic neurons for the study of cholinergic transmission in experimental models, in Alzheimer's disease and other nervous system disorders.	Isotype: IgG SWISS: Q16572 Applications: WB (1:500-2000) Reactivity: Human, Mouse, Rat (predicted: Rabbit) Predicted MW.: 57 kDa Subcellular Location: Cell membrane
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— VALIDATION IMAGES —

Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Rat Cerebrum tissue lysates Lane 3:
Human SH-SY5Y cell lysates Primary: Anti-
Vesicular Acetylcholine Transporter (bs-1833R)
at 1/1000 dilution Secondary: IRDye800CW Goat
Anti-Rabbit IgG at 1/20000 dilution Predicted
band size: 57 kDa Observed band size: 60 kDa

— SELECTED CITATIONS —

- **[IF=2.894]** Shen, Zhou. et al. Bone marrow mesenchymal stem cells therapy on bilateral pelvic nerve crush-induced voiding dysfunction in rats. INT UROGYNECOL J. 2022 Apr;:1-8 IF ;Rat. 35451617

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