

VAMP2 Rabbit pAb

Catalog # AP53639

Product Information

Primary Accession	P63027
Host	Rabbit
Clonality	Polyclonal Antibody
Calculated MW	12663

Additional Information

Gene ID	6844
Other Names	SYB2; VAMP-2
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

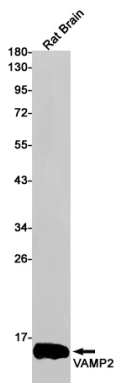
Protein Information

Name	VAMP2 (HGNC:12643)
Function	SNAREs (soluble N-ethylmaleimide-sensitive factor-attachment protein receptors) are essential proteins for intracellular membrane fusion. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four-helix bundle whose assembly releases energy that drives membrane fusion. The core SNARE complex typically consists of four alpha-helical domains, three from target membrane SNAREs (t-SNAREs) and one from a vesicle SNARE (v-SNARE) (PubMed:10036234, PubMed:30929742). VAMP2 is a v-SNARE assembling into a SNARE complex with the t-SNAREs SNAP25 and STX1A to mediate the fusion of synaptic vesicles with the presynaptic plasma membrane in neurotransmitter release (PubMed:30929742). Also functions in compensatory endocytosis for synaptic vesicle recycling (By similarity). In adipocytes, it is involved in the insulin-dependent exocytosis of GLUT4 storage vesicles (By similarity). Independently of its SNARE activity, it could modulate the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1 (By similarity).
Cellular Location	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass type IV membrane protein. Cell membrane {ECO:0000250 UniProtKB:P63045}. Note=Colocalizes with PRKCZ and WDFY2 in intracellular vesicles (PubMed:17313651)
Tissue Location	Nervous system and skeletal muscle.

Background

Swiss-Prot Acc.P63027.Involved in the targeting and/or fusion of transport vesicles to their target membrane. Modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1.

Images



Western blot detection of VAMP2 in Rat Brain lysates using VAMP2 Rabbit pAb(1:1000 diluted).Predicted band size:13kDa.Observed band size:13kDa.

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