

Anti-VAMP2 Rabbit Monoclonal Antibody

Catalog # ABO13769

Product Information

Application	WB, IF, ICC, IP, FC
Primary Accession	P63027
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-VAMP2 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

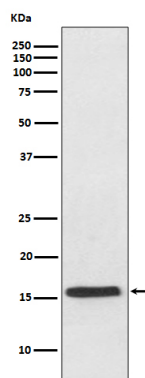
Additional Information

Gene ID	6844
Other Names	Vesicle-associated membrane protein 2, VAMP-2, Synaptobrevin-2, VAMP2 (HGNC:12643), SYB2
Calculated MW	12663
Application Details	WB 1:1000-1:5000 ICC/IF 1:50-1:200 IP 1:50 FC 1:50
Subcellular Localization	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass type IV membrane protein. Cell junction, synapse, synaptosome. Cell membrane. Neuronal synaptic vesicles. Colocalizes with PRKCZ and WDFY2 in intracellular vesicles (PubMed:17313651)..
Tissue Specificity	Nervous system and skeletal muscle..
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: AAEG-22
Immunogen	A synthesized peptide derived from human VAMP2
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated 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.

Images



Western blot analysis of VAMP2 expression in mouse brain lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.