

VAMP2 Antibody

Rabbit mAb

Catalog # AP91199

Product Information

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| Application | WB, IF, FC, ICC, IP |
| Primary Accession | P63027 |
| Reactivity | Rat, Human, Mouse |
| Clonality | Monoclonal |
| Other Names | RATVAMPB; RATVAMPIR; SYB2; Synaptobrevin 2; Vamp2l; Vesicle-associated membrane protein 2 (synaptobrevin 2); |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 12663 |

Additional Information

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| Dilution | WB 1:1000~1:5000 ICC/IF 1:50~1:200 IP 1:50 FC 1:50 |
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human VAMP2 |
| Description | The SNARE complex is involved in vesicular transport and membrane fusion, a process regulated by calcium. In neurons, VAMP2 is predominantly inserted in presynaptic vesicle membranes. Assembly of VAMP2 with the plasma membrane SNAREs syntaxin 1 and SNAP25 is a key event necessary for membrane fusion and neurotransmitter release. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

Protein Information

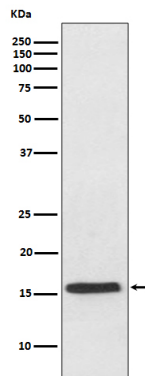
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|--------------------------|--|
| Name | VAMP2 (HGNC:12643) |
| Synonyms | SYB2 |
| Function | Involved in the targeting and/or fusion of transport vesicles to their target membrane (By similarity). Major SNARE protein of synaptic vesicles which mediates fusion of synaptic vesicles to release neurotransmitters. Essential for fast vesicular exocytosis and activity-dependent neurotransmitter release as well as fast endocytosis that mediates rapid reuse of synaptic vesicles (By similarity) (PubMed: 30929742). Modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1. |
| 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'.