

## Rabbit VAMP2 Polyclonal Antibody | anti-VAMP2 antibody

VAMP2 Antibody

|                               |                       |                                        |                                                                  |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA326154</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|

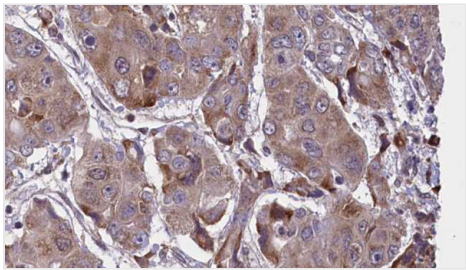
### PRODUCT SYNONYMS

VAMP2; Polyclonal Antibody; VAMP2 Antibody; FLJ11460; RATVAMPB; RATVAMPIR; SYB; SYB2; Synaptobrevin 2; Synaptobrevin-2; VAMP 2; VAMP-2; Vamp2; VAMP2\_HUMAN; Vesicle associated membrane protein 2; Vesicle-associated membrane protein 2 (synaptobrevin 2); Vesicle-associated membrane protein 2; anti-VAMP2 antibody

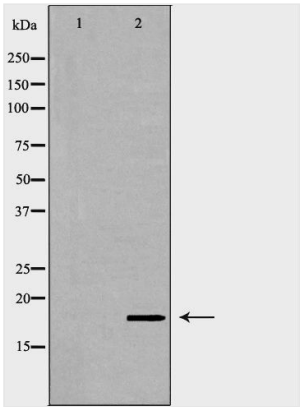
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                         |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                  |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                       |
| Clonality                                       | Polyclonal                                                                                                                              |
| Isotype                                         | IgG                                                                                                                                     |
| Specificity                                     | VAMP2 antibody detects endogenous levels of total VAMP2                                                                                 |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                           |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                           |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                  |
| Sequence Length                                 | 116                                                                                                                                     |
| Applicable Applications for anti-VAMP2 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                    |
| Immunogen                                       | A synthesized peptide derived from human VAMP2                                                                                          |
| Subcellular Location                            | Cytoplasmic Vesicle > Secretory Vesicle > Synaptic Vesicle Membrane. Cell Junction > Synapse > Synaptosome. Neuronal Synaptic Vesicles. |
| Tissue Specificity                              | Nervous system and skeletal muscle.                                                                                                     |
| Predicted Cross Reactivity                      | <b>Pig, Bovine, Rabbit</b>                                                                                                              |
| Similarity                                      | Pig (100%), Bovine (100%), Rabbit (100%)                                                                                                |
| Conjugation                                     | Unconjugated                                                                                                                            |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                       |

IMAGES



**IHC (Immunohistochemistry)**  
AAA326154 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



**WB (Western Blot)**  
Western blot analysis of brain lysate using VAMP2 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-VAMP2 antibody</b> | <p>Description: Vesicle-associated membrane protein 2 (VAMP2, also called synaptobrevin) is part of the R-soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complex (1). The SNARE complex is involved in vesicular transport and membrane fusion, a process regulated by calcium (2). 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 (2). In addition to this important function, VAMP2 is also involved in granule exocytosis in neutrophils (3) and release of bioactive peptides from cardiac myocytes (4) and juxtaglomerular cells (5).</p> <p>Function: 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.</p> <p>Subunit Structure: Interacts (via N-terminus) with KCNB1 (via N-terminus and C-terminus); stimulates the channel inactivation rate of KCNB1 (By similarity). Part of the SNARE core complex containing SNAP25, VAMP2 and STX1A. This complex binds to CPLX1. Interacts with BVES and STX4 (By similarity). Interacts with VAPA and VAPB. Interacts with WDFY2, PRKCZ and PRKCI (PubMed:17313651). Forms a complex with WDFY2 and PRKCZ (PubMed:17313651).</p> <p>Post-translational Modifications: Phosphorylated by PRKCZ in vitro and this phosphorylation is increased in the presence of WDFY2.</p> <p>Similarity: Belongs to the synaptobrevin family.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| NCBI GI #                        | 172072620                                       |
| NCBI GeneID                      | 6844                                            |
| NCBI Accession #                 | NP_055047.2                                     |
| NCBI GenBank Nucleotide #        | NM_014232.2                                     |
| UniProt Accession #              | P63027; P19065; Q9BUC2                          |
| Molecular Weight                 | Observed: 18 kDa<br>Predicted: 13 kDa           |
| NCBI Official Full Name          | vesicle-associated membrane protein 2 isoform 1 |
| NCBI Official Synonym Full Names | vesicle associated membrane protein 2           |
| NCBI Official Symbol             | VAMP2                                           |
| NCBI Official Synonym Symbols    | SYB2; VAMP-2                                    |
| NCBI Protein Information         | vesicle-associated membrane protein 2           |

|                            |                                       |
|----------------------------|---------------------------------------|
| UniProt Protein Name       | Vesicle-associated membrane protein 2 |
| UniProt Gene Name          | VAMP2                                 |
| UniProt Synonym Gene Names | SYB2; VAMP-2                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/vamp2-antibody-immunohistochemistry-western-blot-elisa/326154>