

KD-Validated Anti-Vesicle associated membrane protein 2 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2317**Specification****KD-Validated Anti-Vesicle associated membrane protein 2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P63027
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 13 kDa ; Observed, 16 kDa kDa
Gene Name	VAMP2
Aliases	Vesicle Associated Membrane Protein 2; Vesicle-Associated Membrane Protein 2; Synaptobrevin 2; VAMP-2; SYB2; Synaptobrevin-2
Immunogen	A synthesized peptide derived from human VAMP2

KD-Validated Anti-Vesicle associated membrane protein 2 Rabbit Monoclonal Antibody - Additional InformationGene ID **6844****Other Names**

Vesicle-associated membrane protein 2, VAMP-2, Synaptobrevin-2, VAMP2 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=12643)
HGNC:12643), SYB2

KD-Validated Anti-Vesicle associated membrane protein 2 Rabbit Monoclonal Antibody - Protein Information**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](http://www.uniprot.org/citations/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

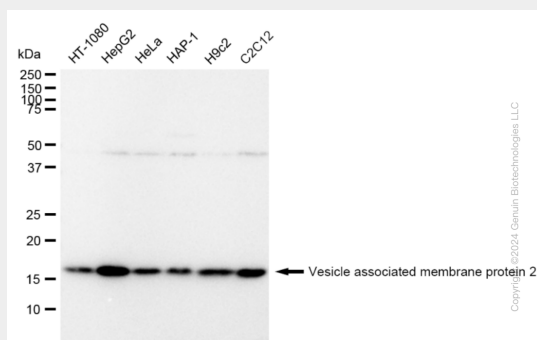
Nervous system and skeletal muscle.

KD-Validated Anti-Vesicle associated membrane protein 2 Rabbit Monoclonal Antibody - Protocols

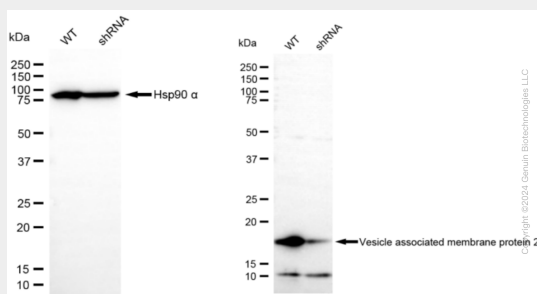
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Vesicle associated membrane protein 2 Rabbit Monoclonal Antibody - Images

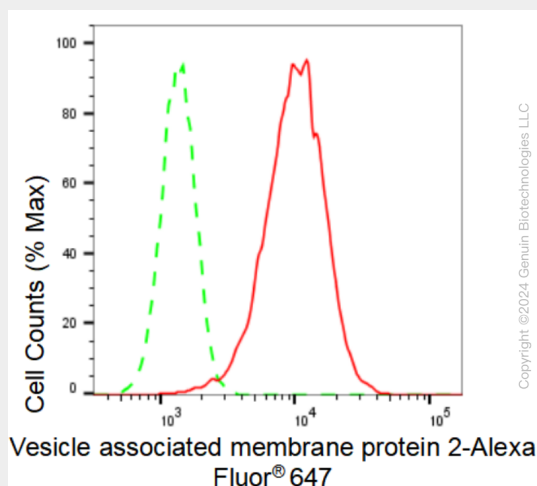


Western blotting analysis using anti-Vesicle associated membrane protein 2 antibody (Cat#AGI2317). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Vesicle associated membrane protein 2 antibody (Cat#AGI2317, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

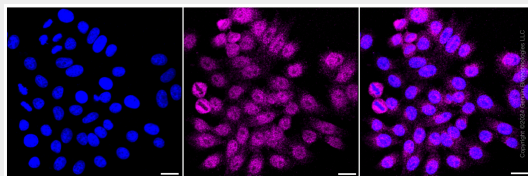


Western blotting analysis using anti-Vesicle associated membrane protein 2 antibody (Cat#AGI2317).Vesicle associated membrane protein 2 expression in wild type (WT) and vesicle associated membrane protein 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Vesicle associated membrane protein 2 antibody (Cat#AGI2317, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

secondary antibody respectively.



Flow cytometric analysis of Vesicle associated membrane protein 2 expression in HepG2 cells using Vesicle associated membrane protein 2 antibody (Cat#AGI2317, 1:2,000). Green, isotype control; red, Vesicle associated membrane protein 2.



Immunocytochemical staining of HepG2 cells with Vesicle associated membrane protein 2 antibody (Cat#AGI2317, 1:1,000). Nuclei were stained blue with DAPI; Vesicle associated membrane protein 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.