
Product Name: KD-Validated Vesicle Associated Membrane Protein 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00248

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 12.7kDa

Antigen Information

Gene Name	VAMP2
Alternative Names	Vesicle Associated Membrane Protein 2; Vesicle-Associated Membrane Protein 2; Synaptobrevin 2; VAMP-2; SYB2; Synaptobrevin-2
Gene ID	6844.0
SwissProt ID	P63027
Immunogen	A synthesized peptide derived from human VAMP2

Background

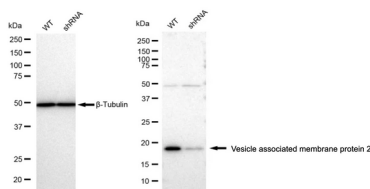
The protein encoded by this gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. Synaptobrevins/VAMPs, syntaxins, and the 25-kD synaptosomal-associated protein SNAP25 are the main components of a

protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. This gene is thought to participate in neurotransmitter release at a step between docking and fusion. The protein forms a stable complex with syntaxin, synaptosomal-associated protein, 25 kD, and synaptotagmin. It also forms a distinct complex with synaptophysin. It is a likely candidate gene for familial infantile myasthenia (FIMG) because of its map location and because it encodes a synaptic vesicle protein of the type that has been implicated in the pathogenesis of FIMG. [provided by RefSeq, Jul 2008]

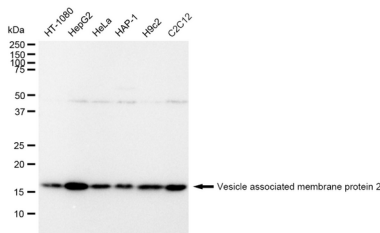
Research Area

Signal Transduction, Neuroscience, Cancer, Metabolism

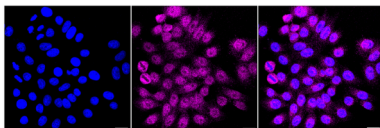
Image Data



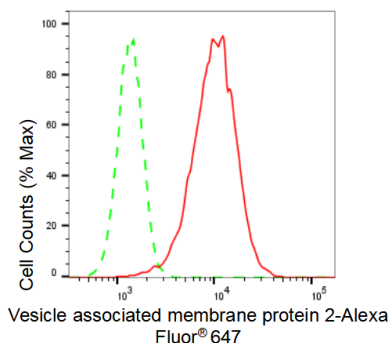
Western blotting analysis using Vesicle associated membrane protein 2 antibody (KVA00248). Vesicle associated membrane protein 2 expression in wild type (WT) and vesicle associated membrane protein 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Vesicle associated membrane protein 2 antibody (KVA00248, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Vesicle associated membrane protein 2 antibody (KVA00248). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Vesicle associated membrane protein 2 antibody (KVA00248, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Vesicle associated membrane protein 2 antibody (KVA00248, 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.



Flow cytometric analysis of Vesicle associated membrane protein 2 expression in HepG2 cells using Vesicle associated membrane protein 2 antibody (KVA00248, 1:2,000). Green, isotype control; red, Vesicle associated membrane protein 2.