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ARG41073
anti-VAMP2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes VAMP2
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	VAMP2
Species	Human
Immunogen	Synthetic peptide derived from Human VAMP2.
Conjugation	Un-conjugated
Alternate Names	SYB2; Synaptobrevin-2; Vesicle-associated membrane protein 2; VAMP-2

Application Instructions

Application table

Application	Dilution
FACS	1:50
ICC/IF	1:50 - 1:200
IP	1:50
WB	1:1000 - 1:5000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

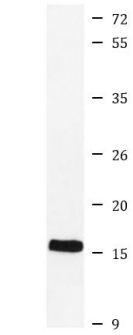
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	VAMP2
Gene Full Name	vesicle-associated membrane protein 2 (synaptobrevin 2)
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]
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. [UniProt]
Calculated Mw	13 kDa
PTM	Phosphorylated by PRKCZ in vitro and this phosphorylation is increased in the presence of WDFY2. [UniProt]
Cellular Localization	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass type IV membrane protein. Cell junction, synapse, synaptosome. Cell membrane. Note=Neuronal synaptic vesicles. Colocalizes with PRKCZ and WDFY2 in intracellular vesicles (PubMed:17313651). [UniProt]

Images



Mouse brain

ARG41073 anti-VAMP2 antibody WB image

Western blot: Mouse brain lysate stained with ARG41073 anti-VAMP2 antibody.