

ARG56935 anti-VAMP2 antibody [3E5]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [3E5] recognizes VAMP2
Tested Reactivity	Hu, Rat
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	3E5
Isotype	IgG1, kappa
Target Name	VAMP2
Species	Human
Immunogen	Recombinant fragment around aa. 1-89 of Human VAMP2.
Conjugation	Un-conjugated
Alternate Names	SYB2; Synaptobrevin-2; Vesicle-associated membrane protein 2; VAMP-2

Application Instructions

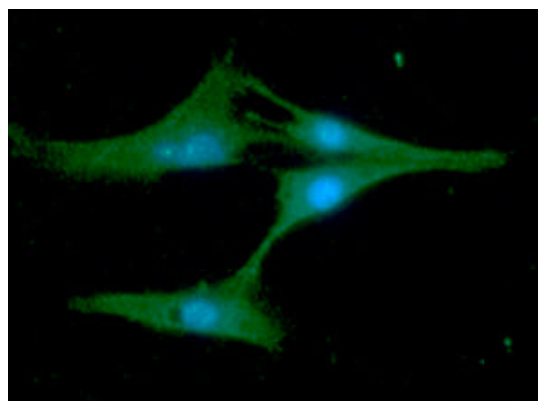
Application table	Application	Dilution
	ICC/IF	Assay-dependent
	WB	1:1000 - 1:3000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
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.

Database links	GeneID: 24803 Rat GeneID: 6844 Human Swiss-port # P63027 Human Swiss-port # P63045 Rat
Gene Symbol	VAMP2
Gene Full Name	vesicle-associated membrane protein 2 (synaptobrevin 2)
Background	<p>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]</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. [UniProt]
Calculated Mw	13 kDa
PTM	Phosphorylated by PRKCZ in vitro and this phosphorylation is increased in the presence of WDFY2.

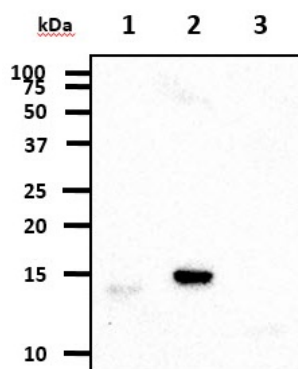
Images



ARG56935 anti-VAMP2 antibody [3E5] ICC/IF image

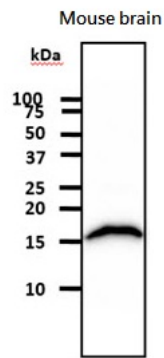
Immunofluorescence: U87MG cell line stained with ARG56935 anti-VAMP2 antibody [3E5] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



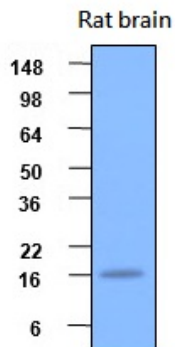
ARG56935 anti-VAMP2 antibody [3E5] WB image

Western blot: 50 ng of 1) Recombinant Human VAMP1, 2) Recombinant Human VAMP2, and 3) Recombinant Human VAMP3 stained with ARG56935 anti-VAMP2 antibody [3E5] at 1:1000.



ARG56935 anti-VAMP2 antibody [3E5] WB image

Western blot: 50 ng of Mouse brain tissue lysate stained with ARG56935 anti-VAMP2 antibody [3E5] at 1:1000.



ARG56935 anti-VAMP2 antibody [3E5] WB image

Western blot: 20 µg of Rat brain tissue lysate stained with ARG56935 anti-VAMP2 antibody [3E5] at 1:2000.