

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse VAMP-1/VAMP-2 in Western blots. This antibody does not react with recombinant VAMP family members 5, 7, and 8.
Source	Monoclonal Mouse IgG ₁ Clone # 540524
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human VAMP-1 Met1-Lys96 Accession # P23763
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

VAMP-1 (vesicle-associated membrane protein 1; also synaptobrevin-1/SYB1) is an 18 kDa member of the synaptobrevin family of proteins. It is expressed in neurons, neutrophils and skeletal muscle cells, and participates in vesicle fusion with the plasma membrane. Human VAMP-1 is a type IV transmembrane protein that contains an N-terminal cytoplasmic region (aa 1-96) and a 22 aa transmembrane domain (aa 97-118). There is one coiled-coil region between aa 33-93. Multiple splice variants are known that show two, three, four and 81 aa substitutions for the C-terminal five amino acids. One three aa variant creates a mitochondrial targeting motif. Over aa 1-96, human VAMP-1 is 98% aa identical to mouse VAMP-1.

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