

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse VAMP-1 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant human (rh) VAMP-2 and less than 1% cross-reactivity with rhVAMP-5 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human VAMP-1 Met1-Lys96 Accession # P23763
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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 118 amino acids (aa) in length. It 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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