

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse VAMP-2 in Western blots. In Western blots, no cross-reactivity with recombinant human VAMP-1, -5, -7, or -8 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 541405
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human VAMP-2 Ser2-Lys94 Accession # P63027
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-2 (vesicle associated membrane protein 2; also Synaptobrevin-2) is a 13 kDa member of the Synaptobrevin family of proteins. It is a type IV transmembrane (TM) protein (i.e. a type II TM protein whose C-terminus is almost completely transmembrane) that is found in the presynaptic terminals of neurons. VAMP-2 is targeted to presynaptic vesicles following binding to Synaptophysin I. Dissociation allows for synaptic vesicle fusion at the synaptic cleft with subsequent granule release. Human VAMP-2 is 116 amino acids (aa) in length. It contains one acetylation site at Ser2, a vSNARE coiled-coil homology region (aa 31-91), and a membrane-anchor domain (aa 95-114). Over aa 1-94, human VAMP-2 shares 100% and 99% aa identity with canine and mouse VAMP-2, respectively.

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