

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VAMP-7 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 549115
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human VAMP-7 Ala2-Met140 Accession # P51809
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

Vesicle-associated membrane protein 7 (VAMP-7) is a 25 kDa, widely expressed, type IV transmembrane protein and member of the synaptobrevin family. Mature human VAMP-7 consists of a 187 aa cytoplasmic domain, a 21 aa transmembrane region, and an 11 aa vesicular region. The cytoplasmic domain contains a longin domain (aa 7-110) and a v-SNARE coiled-coil homology domain (aa 125-185). Two splicing variants produce three isoforms for human VAMP-7. Isoform 2 has a 116 aa substitution for aa 145-220 found in isoform 1, and isoform 3 is missing the residues corresponding to aa 28-68 in isoform 1. Human VAMP-7 shares 99%, 97%, and 95% aa sequence identity with bovine, mouse, and rat VAMP-7, respectively.

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