

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VAMP-5 in direct ELISAs. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) VAMP-7 is observed, and less than 1% cross-reactivity with rhVAMP-1, rhVAMP-2, and rhVAMP-8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human VAMP-5 Ala2-Cys72 Accession # O95183
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.

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-5 (vesicle associated membrane protein 5; also myobrevin) is a member of the synaptobrevin family of proteins. Although its predicted MW is 11 kDa, it runs anomalously at 16 kDa in SDS-Page. VAMP-5 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 both trans-Golgi and plasma membranes of myotubes (mature skeletal and cardiac muscle cells). While VAMPs are commonly associated with vesicle fusion to t-SNARE in cell membranes, VAMP-5 appears to show no such activity. Human VAMP-5 is 116 amino acids (aa) in length. It contains an N-terminal cytoplasmic region (aa 1-72) with one vSNARE coiled-coil homology domain, a 21 aa TM segment, and 23 aa C-terminal luminal domain. Over aa 1-72, human VAMP-5 shares 75% aa identity with mouse VAMP-5.

PRODUCT SPECIFIC NOTICES

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