

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

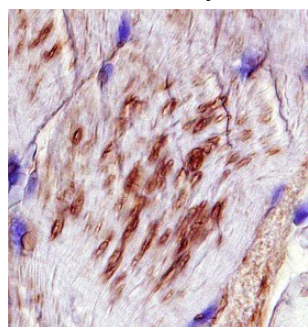
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



VAMP-5 in Human Skeletal Muscle. VAMP-5 was detected in immersion fixed paraffin-embedded sections of human skeletal muscle using Sheep Anti-Human VAMP-5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7366) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to sarcoplasm of muscle cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.