

VAMP4 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP20234c**Specification**

VAMP4 Blocking Peptide (Center) - Product Information

Primary Accession [O75379](#)
Other Accession [O70480](#), [Q32L97](#), [NP_003753.2](#)

VAMP4 Blocking Peptide (Center) - Additional Information

Gene ID 8674

Other Names

Vesicle-associated membrane protein 4, VAMP-4, VAMP4

Target/Specificity

The synthetic peptide sequence is selected from aa 76-90 of HUMAN VAMP4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VAMP4 Blocking Peptide (Center) - Protein Information

Name VAMP4

Function

Involved in the pathway that functions to remove an inhibitor (probably synaptotagmin-4) of calcium-triggered exocytosis during the maturation of secretory granules. May be a marker for this sorting pathway that is critical for remodeling the secretory response of granule.

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Single-pass type IV membrane protein
Note=Associated with trans Golgi network (TGN) and newly formed immature secretory granules (ISG). Not found on the mature secretory organelles

VAMP4 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

VAMP4 Blocking Peptide (Center) - Images

VAMP4 Blocking Peptide (Center) - Background

Synaptobrevins/VAMPs, syntaxins, and the 25-kD synaptosomal-associated protein SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. The protein encoded by this gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. This protein may play a role in trans-Golgi network-to-endosome transport.

VAMP4 Blocking Peptide (Center) - References

Olsen, J.V., et al. Cell 127(3):635-648(2006)
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Sabra, M.M., et al. Mol. Genet. Metab. 85(2):133-139(2005)
Ballif, B.A., et al. Mol. Cell Proteomics 3(11):1093-1101(2004)
Hinnert, I., et al. EMBO Rep. 4(12):1182-1189(2003)