

**VAC14 Blocking Peptide (C-term)**

Synthetic peptide

Catalog # BP20783c

**Specification**

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**VAC14 Blocking Peptide (C-term) - Product Information**

Primary Accession

[Q08AM6](#)

Other Accession

[Q80W92](#), [A2VE70](#)**VAC14 Blocking Peptide (C-term) - Additional Information****Gene ID** 55697**Other Names**

Protein VAC14 homolog, Tax1-binding protein 2, VAC14, TAX1BP2, TRX

**Target/Specificity**

The synthetic peptide sequence is selected from aa 769-782 of HUMAN VAC14

**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.

**VAC14 Blocking Peptide (C-term) - Protein Information****Name** VAC14**Synonyms** TAX1BP2, TRX**Function**

Scaffold protein component of the PI(3,5)P2 regulatory complex which regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Pentamerizes into a star-shaped structure and nucleates the assembly of the complex. The pentamer binds a single copy each of PIKfyve and FIG4 and coordinates both PIKfyve kinase activity and FIG4 phosphatase activity, being required to maintain normal levels of phosphatidylinositol 3-phosphate (PtdIns(3)P) and phosphatidylinositol 5-phosphate (PtdIns(5)P) (PubMed:<a href="http://www.uniprot.org/citations/33098764" target="\_blank">33098764</a>). Plays a role in the biogenesis of endosome carrier vesicles (ECV) / multivesicular bodies (MVB) transport intermediates from early endosomes.

**Cellular Location**

Endosome membrane. Microsome membrane {ECO:0000250|UniProtKB:Q80W92}. Note=Mainly

associated with membranes of the late endocytic pathway

**Tissue Location**

Ubiquitously expressed.

**VAC14 Blocking Peptide (C-term) - Protocols**

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

- [Blocking Peptides](#)

**VAC14 Blocking Peptide (C-term) - Images****VAC14 Blocking Peptide (C-term) - Background**

The PI(3,5)P<sub>2</sub> regulatory complex regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P<sub>2</sub>). Acts as a positive activator of PIKfyve kinase activity. Also required to maintain normal levels of phosphatidylinositol 3-phosphate (PtdIns(3)P) and phosphatidylinositol 5-phosphate (PtdIns(5)P). Plays a role in the biogenesis of endosome carrier vesicles (ECV) / multivesicular bodies (MVB) transport intermediates from early endosomes.

**VAC14 Blocking Peptide (C-term) - References**

Ota T., et al. Nat. Genet. 36:40-45(2004).  
Mireskandari A., et al. Biochim. Biophys. Acta 1306:9-13(1996).  
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Sbrissa D., et al. Mol. Cell. Biol. 24:10437-10447(2004).  
Lemaire J.F., et al. FEBS Lett. 580:6948-6954(2006).