

# **VAC14 Blocking Peptide (N-Term)**

Synthetic peptide Catalog # BP21773a

# **Specification**

# VAC14 Blocking Peptide (N-Term) - Product Information

**Primary Accession** 

**Q08AM6** 

## VAC14 Blocking Peptide (N-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 145-159 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 (N-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 (N-Term) - Protocols

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

• Blocking Peptides

VAC14 Blocking Peptide (N-Term) - Images

VAC14 Blocking Peptide (N-Term) - Background

The PI(3,5)P2 regulatory complex regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). 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 (N-Term) - References

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Martin J.,et al.Nature 432:988-994(2004).

Mireskandari A.,et al.Biochim. Biophys. Acta 1306:9-13(1996).

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Sbrissa D.,et al.Mol. Cell. Biol. 24:10437-10447(2004).