

**VAC14 Antibody (N-Term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21773a**

**Specification**

---

**VAC14 Antibody (N-Term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">Q08AM6</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>87973</b>

**VAC14 Antibody (N-Term) - Additional Information**

**Gene ID** 55697

**Other Names**

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

**Target/Specificity**

This VAC14 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 125-159 amino acids from human VAC14.

**Dilution**

WB~~1:2000

IHC-P~~1:25

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

VAC14 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**VAC14 Antibody (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)P<sub>2</sub>). 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:[33098764](#)). 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

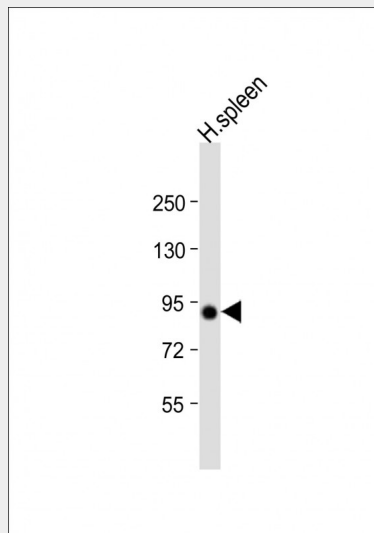
Ubiquitously expressed.

### VAC14 Antibody (N-Term) - Protocols

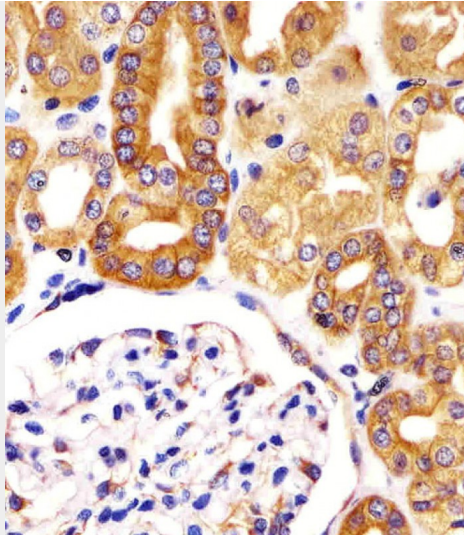
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### VAC14 Antibody (N-Term) - Images



Anti-VAC14 Antibody (N-Term) at 1:2000 dilution + human spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 88 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



AP21773a staining VAC14 in human kidney tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

#### **VAC14 Antibody (N-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 Antibody (N-Term) - References**

Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Martin J., et al. *Nature* 432:988-994(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).