

**VAC14 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20783c**

### Specification

#### VAC14 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">Q08AM6</a>
Other Accession	<a href="#">Q80W92</a> , <a href="#">A2VE70</a>
Reactivity	Rat
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	87973
Antigen Region	769-802

#### VAC14 Antibody (C-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 769-802 amino acids from the C-terminal region of human VAC14.

##### Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

##### 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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### VAC14 Antibody (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:[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

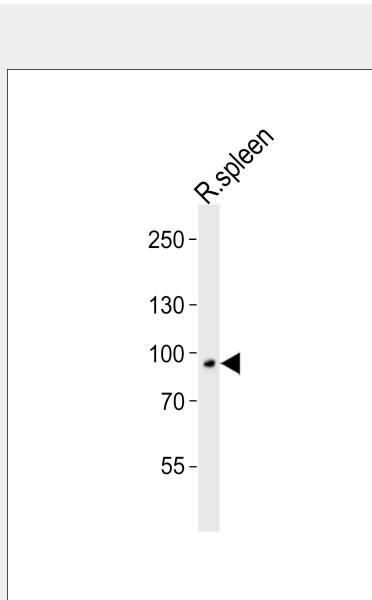
**Tissue Location**

Ubiquitously expressed.

**VAC14 Antibody (C-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 (C-term) - Images**

Western blot analysis of lysate from rat spleen tissue lysate, using VAC14 Antibody (C-term)(Cat. #AP20783c). AP20783c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

**VAC14 Antibody (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 Antibody (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).