

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

VAC14 Antibody (C-term) - Product Information

| | |
|-------------------|---|
| Application | WB,E |
| Primary Accession | Q08AM6 |
| Other Accession | Q80W92 , A2VE70 |
| 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

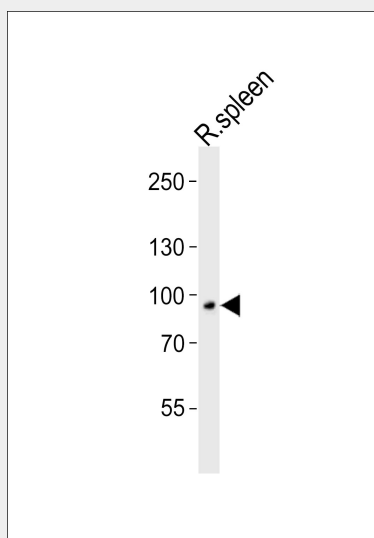
Tissue Location

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)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 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).
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