

VAC14 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20783c

Specification

VAC14 Antibody (C-term) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region WB,E <u>Q08AM6</u> <u>Q80W92</u>, <u>A2VE70</u> Rat Bovine Rabbit Polyclonal Rabbit IgG 87973 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:<u>33098764</u>). 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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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). Lemaire J.F.,et al.FEBS Lett. 580:6948-6954(2006).