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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

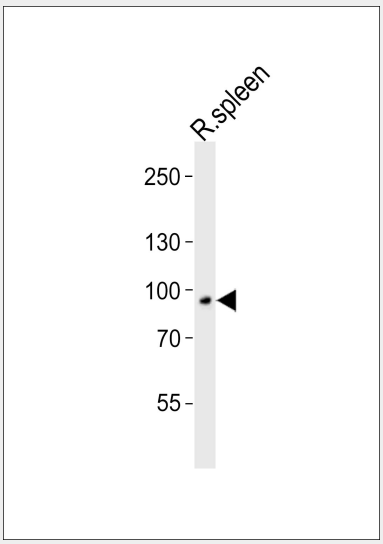
Tissue Location
Ubiquitously expressed.

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 Cytomety
- 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

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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).
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