

VAC14 (H-261): sc-98632

BACKGROUND

Phosphatidylinositol 3,5-bisphosphate (PI(3,5)P₂) is a signaling molecule that exists as a minor component of cell membranes and is essential for the distinguishing of cellular compartments. The synthesis of PI(3,5)P₂ is regulated by a number of proteins that are involved in intracellular trafficking and assembly events throughout the cell. VAC14, also known as TAX1BP2 (Tax1-binding protein 2) or TRX, is a 782 amino acid protein that contains six HEAT repeats and exists as part of a regulatory complex with FIG4. Expressed ubiquitously, VAC14 works with FIG4 to control the synthesis of PI(3,5)P₂, specifically mediating the activation of PIP5KIII, a kinase involved in the regulation of PI(3,5)P₂ activity. The gene encoding VAC14 maps to human chromosome 16, which houses over 900 genes and comprises nearly 3% of the human genome.

REFERENCES

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- Online Mendelian Inheritance in Man, OMIM™. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 604632. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: VAC14 (human) mapping to 16q22.1; Vac14 (mouse) mapping to 8 E1.

SOURCE

VAC14 (H-261) is a rabbit polyclonal antibody raised against amino acids 421-681 mapping within an internal region of VAC14 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

VAC14 (H-261) is recommended for detection of VAC14 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

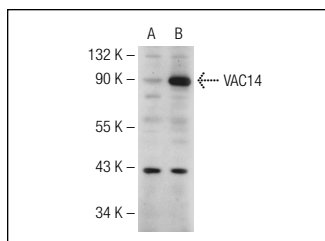
VAC14 (H-261) is also recommended for detection of VAC14 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for VAC14 siRNA (h): sc-72206, VAC14 siRNA (m): sc-72207, VAC14 shRNA Plasmid (h): sc-72206-SH, VAC14 shRNA Plasmid (m): sc-72207-SH, VAC14 shRNA (h) Lentiviral Particles: sc-72206-V and VAC14 shRNA (m) Lentiviral Particles: sc-72207-V.

Molecular Weight of VAC14: 88 kDa.

Positive Controls: VAC14 (m2): 293T Lysate: sc-124533.

DATA



VAC14 (H-261): sc-98632. Western blot analysis of VAC14 expression in non-transfected: sc-117752 (A) and mouse VAC14 transfected: sc-124533 (B) 293T whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.


 MONOS
Satisfaction
Guaranteed

Try **VAC14 (C-10): sc-271831** or **VAC14 (F-12): sc-365272**, our highly recommended monoclonal alternatives to VAC14 (H-261).