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VAC14 (m2): 293T Lysate: sc-124533

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 6 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.

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CHROMOSOMAL LOCATION

Genetic locus: Vac14 (mouse) mapping to 8 E1.

PRODUCT

VAC14 (m2): 293T Lysate represents a lysate of mouse VAC14 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

VAC14 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive VAC14 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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