

Vac17p (yS-19): sc-28176

BACKGROUND

The vacuole-specific Vac17p (Myo2p receptor) has a key function in the directionality of vacuole movement. Normal cellular function requires that organelles be positioned in specific locations. The direction in which molecular motors move organelles is based in part on the polarity of microtubules and actin filaments. Vac17p binds simultaneously to Myo2p and to Vac8p, a vacuolar membrane protein. The transport complex, Myo2p-Vac17p-Vac8p, moves the vacuole to the bud, and is then disrupted through the degradation of Vac17p. The vacuole is ultimately deposited near the centre of the bud.

REFERENCES

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3. Wang, Y.X., et al. 1996. Multiple classes of yeast mutants are defective in vacuole partitioning yet target vacuole proteins correctly. *Mol. Biol. Cell* 7: 1375-1389.
4. Xu, Z., et al. 1996. Thioredoxin is required for vacuole inheritance in *Saccharomyces cerevisiae*. *J. Cell Biol.* 132: 787-794.
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8. Ishikawa, K., et al. 2003. Identification of an organelle-specific myosin V receptor. *J. Cell Biol.* 160: 887-897.
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SOURCE

Vac17p (yS-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Vac17p of *Saccharomyces cerevisiae* origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-28176 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Vac17p (yS-19) is recommended for detection of Vac17p of *Saccharomyces cerevisiae* 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.