SANTA CRUZ BIOTECHNOLOGY, INC.

Vps27 (yN-20): sc-25197



BACKGROUND

Membrane proteins that are degraded in the vacuole of *Saccharomyces cerevisiae* are sorted into discrete intralumenal vesicles. VPS27, for vacuolar protein sorting-associated protein 27, is a class E VPS protein that controls membrane traffic through the prevacuolar/endosomal compartment. VPS27 forms a complex with Hse1 that localizes to endosomal compartments and binds to Ub. This complex is also required for the recycling of Golgi proteins, formation of lumenal membranes and sorting of ubiquitinated proteins into those membranes. Ubiquitin-interacting motifs (UIMs) found in VPS27 are required for ubiquitin binding and protein transport. Mutations in VPS27 leads to an exaggerated form of the prevacuolar compartment and loss of VPS27 function results in an accumulation of the PVC.

REFERENCES

- 1. Piper, R.C., Cooper, A.A., Yang, H. and Stevens, T.H. 1995. VPS27 controls vacuolar and endocytic traffic through a prevacuolar compartment in *Saccharomyces cerevisiae*. J. Cell Biol. 131: 603-617.
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- Shih, S.C., Katzmann, D.J., Schnell, J.D., Sutanto, M., Emr, S.D. and Hicke, L. 2002. Epsins and VPS27p/Hrs contain ubiquitin-binding domains that function in receptor endocytosis. Nat. Cell Biol. 4: 389-393.
- Bilodeau, P.S., Urbanowski, J.L., Winistorfer, S.C. and Piper, R.C. 2002. The VPS27p Hse1p complex binds ubiquitin and mediates endosomal protein sorting. Nat. Cell Biol. 4: 534-539.

SOURCE

Vps27 (yN-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Vps27 of *Saccharomyces cerevisiae* origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-25197 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

Vps27 (yN-20) is recommended for detection of Vps27 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) 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-2033 and Western Blotting Luminol Reagent: sc-2048.

RESEARCH USE

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