



## Vps27 (yl-17): sc-25198

### BACKGROUND

Membrane proteins that are degraded in the vacuole of *Saccharomyces cerevisiae* are sorted into discrete intraluminal 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 luminal 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.
2. Piper, R.C., Bryant, N.J. and Stevens, T.H. 1997. The membrane protein alkaline phosphatase is delivered to the vacuole by a route that is distinct from the VPS-dependent pathway. *J. Cell Biol.* 138: 531-545.
3. Bryant, N.J., Piper, R.C., Gerrard, S.R. and Stevens, T.H. 1998. Traffic into the prevacuolar/endosomal compartment of *Saccharomyces cerevisiae*: a VPS45-dependent intracellular route and a VPS45-independent, endocytic route. *Eur. J. Cell Biol.* 76: 43-52.
4. 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.
5. 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 (yl-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of VPS27 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-25198 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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

### APPLICATIONS

VPS27 (yl-17) 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-2333 and Western Blotting Luminol Reagent: sc-2048.

### RESEARCH USE

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