



# Vps36 (yT-15): sc-26151

## BACKGROUND

Vacuolar protein sorting mutant 36 (VPS36), a class E VPS protein identified in yeast, is an important component of the trafficking pathway of proteins from the Golgi to the endosome. VPS36 functions as a member of the 155 kDa ESCRT-II complex that transiently associates with the endosomal membrane to sort ubiquitinated endosomal membrane proteins as part of a coordinated cascade of events to select multivesicular body cargoes for delivery to the lumen of the Lysosome. VPS36 involvement in post-Golgi endosomal-vacuolar protein sorting is indicated by the fact that VPS mutants secrete unprocessed insulin-containing fusion protein (ICFP), induce a stress-response element and repress pheromone-dependent transcription. VPS36 suppresses the phenotype of targeting defective plasma membrane ATPase (Pma1) by allowing mutant Pma1 to regain movement into the plasma membrane.

## REFERENCES

1. Luo, W. and Chang, A. 2000. An endosome-to-plasma membrane pathway involved in trafficking of a mutant plasma membrane ATPase in yeast. *Mol. Biol. Cell* 11: 579-592.
2. Zhang, B., Chang, A., Kjeldsen, T.B. and Arvan, P. 2001. Intracellular retention of newly synthesized insulin in yeast is caused by endoproteolytic processing in the Golgi complex. *J. Cell Biol.* 153: 1187-1198
3. Forsberg, H., Hammar, M., Andreasson, C., Moliner, A. and Ljungdahl, P.O. 2001. Suppressors of *ssy1* and *ptr3* null mutations define novel amino acid sensor-independent genes in *S. Cerevisiae*. *Genetics* 158: 973-988.
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5. Burchett, S.A., Flanary, P., Aston, C., Jiang, L., Young, K.H., Uetz, P., Fields, S. and Dohlman, H.G. 2002. Regulation of stress response signaling by the N-terminal dishevelled/EGL-10/pleckstrin domain of Sst2, a regulator of G protein signaling in *S. Cerevisiae*. *J. Biol. Chem.* 277: 22156-22167.

## SOURCE

VPS36 (yT-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Vps36 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-26151 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.

## RESEARCH USE

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

## APPLICATIONS

VPS36 (yT-15) is recommended for detection of VPS36 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.

## PROTOCOLS

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