



## Ypt1 (yA-17): sc-27910

### BACKGROUND

The Rab/Ypt family of small GTPases regulate various events in vesicular trafficking. The yeast GTPase Ypt1 facilitates transport from the endoplasmic reticulum to the golgi, and through the early golgi. Specifically, the exit of glycosphosphatidylinositol (GPI)-anchored proteins from the ER, in vesicles distinct from other secretory proteins, requires Ypt1. Additionally, Ypt1 effects another small Rab/Ypt GTPase, implying these proteins function in a signal cascade to direct traffic in the secretory pathway.

### REFERENCES

1. Miaczynska, M., et al. 2001. Ypt protein prenylation depends on the interplay among levels of Rab escort protein and geranylgeranyl diphosphate in yeast cells *Yeast*. 18:697-709.
2. De Antoni, A., et al. 2002. Significance of GTP hydrolysis in Ypt1p-regulated endoplasmic reticulum to Golgi transport revealed by the analysis of two novel Ypt1-GAPs. *J. Biol. Chem.* 277:41023-31.
3. Suvorova, E.S., et al. 2002 The Sec34/Sec35p complex, a Ypt1p effector required for retrograde intra-Golgi trafficking, interacts with Golgi SNAREs and COPI vesicle coat proteins *J. Cell Biol.* 157:631-43.
4. Morsomme, P., et al. 2002. The Rab GTPase Ypt1p and tethering factors couple protein sorting at the ER to vesicle targeting to the Golgi apparatus *Dev. Cell.* 2:307-17.
5. Dursina, B., et al. 2002. Interaction of yeast Rab geranylgeranyl transferase with its protein and lipid substrates. *Biochemistry.* 41: 6805-6816.
6. Wang, W., et al. 2002. A Ypt32p exchange factor is a putative effector of Ypt1p. *Mol. Biol. Cell.* 13: 3336-3343.
7. Morsomme, P., et al. 2003. The ER v-SNAREs are required for GPI-anchored protein sorting from other secretory proteins upon exit from the ER. *J. Cell Biol.* 162: 403-412.
8. Lafourcade, C., et al. 2004. The GTPase-activating enzyme Gyp1p is required for recycling of internalized membrane material by inactivation of the Rab/Ypt GTPase Ypt1p. *Mol. Cell. Biol.* 24: 3815-26.
9. Ballew, N., 2005. A Rab requirement is not bypassed in SLY1-20 suppression. *Mol. Biol. Cell.* [Epub].

### SOURCE

Ypt1 (yA-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GTP-binding protein Ypt1 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-27910 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### RESEARCH USE

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

### APPLICATIONS

Ypt1 (yA-17) is recommended for detection of Ypt1 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.

### 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.