



## sst2 (yl-17): sc-28003

### BACKGROUND

Regulators of G protein signaling (RGS) interact with G proteins to negatively regulate G protein coupled receptor signaling. RGS proteins contain a conserved core domain that is necessary for GTPase activation, and distinct N- and C-terminal motifs that confer functional differences. The yeast RGS protein Sst2, for instance, activates a GTPase that is specific for the G $\alpha$  subunit of the trimeric G protein, allowing for more complex regulation of G protein coupled receptor signals.

### REFERENCES

1. Hoffman, G.A., et al. 2000. Endoproteolytic processing of Sst2, a multidomain regulator of G protein signaling in yeast. *J. Biol. Chem.* 275: 37533-37541.
2. Xu, B.E., et al. 2001. The N terminus of *Saccharomyces cerevisiae* Sst2p plays an RGS-domain-independent, Mpt5p-dependent role in recovery from pheromone arrest. *Genetics* 159: 1559-1571.
3. Burchett, S.A., et al. 2002. Regulation of stress response signaling by the N-terminal dishevelled/EGL-10/pleckstrin domain of Sst2, a regulator of G protein signaling in *Saccharomyces cerevisiae*. *J. Biol. Chem.* 277: 22156-22167.
4. Garrison, T.R., et al. 2002. Purification of RGS protein, Sst2, from *Saccharomyces cerevisiae* and *Escherichia coli*. *Meth. Enzymol.* 344: 632-647.
5. Rivers, D.M., et al. 2003. Autocrine activation of the pheromone response pathway in MAT $\alpha$ 2- cells is attenuated by SST2- and ASG7-dependent mechanisms. *Mol. Genet. Genomics.* 270: 225-233.
6. Somerville, W., et al. 2003. The N-terminal non-RGS domain of human regulator of G protein signalling 1 contributes to its ability to inhibit pheromone receptor signalling in yeast. *Cell Signal.* 15: 413-421.

### SOURCE

sst2 (yl-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of sst2 of *Saccharomyces cerevisiae* origin.

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-28003 P, (100  $\mu$ g 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

sst2 (yl-17) is recommended for detection of sst2 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

### 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.