SANTA CRUZ BIOTECHNOLOGY, INC.

Gap1 (yF-15): sc-26303

BACKGROUND

The membrane traffic and stability of the general amino acid permease (Gap1) of *Saccharomyces cerevisiae* is under nitrogen control. In cells growing on proline or urea as the sole nitrogen source, newly synthesized Gap1 is delivered to the plasma membrane, where it accumulates. Addition of a preferential nitrogen source, such as ammonium, to cells growing on a poor nitrogen source induces internalization of Gap1 and its subsequent degradation in the vacuole. This downregulation requires ubiquitination of Gap1, which is dependent on the essential Npi1/Rsp5 ubiquitin ligase. Gap1 is specifically ubiquitinated on Lysine 9 and 16 in the cytosolic N- terminus.

REFERENCES

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SOURCE

Gap1 (yF-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Gap1 of *Saccharomyces cerevisiae* origin.

RESEARCH USE

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

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-26303 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Gap1 (yF-15) is recommended for detection of Gap1 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 or our catalog for detailed protocols and support products.