



Pik1 (γ-300): sc-98259

BACKGROUND

Phosphatidylinositol 4-kinases are molecules that function as important second messengers in various cellular processes. Pik1 is a 1,066 amino acid phosphatidylinositol 4-kinase present in yeast that localizes to the cytoplasmic puncta and the nucleus. Pik1 catalyzes the first committed step in the pathway that produces the second messenger inositol-1,4,5-trisphosphate, which is used during signal transduction. Pik1 is necessary for normal cellular secretion, Golgi and vacuole membrane dynamics, as well as endocytosis. Pik1 may also control cytokinesis via the Actin cytoskeleton. Frequentin (Frq1), a 190-residue N-myristoylated calcium-binding protein, associates tightly with the N-terminus of Pik1, and both are essential for viability and growth.

REFERENCES

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SOURCE

Pik1 (γ-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Pik1 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.

APPLICATIONS

Pik1 (γ-300) is recommended for detection of Pik1 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) 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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.