SANTA CRUZ BIOTECHNOLOGY, INC.

Lcb4 (yN-15): sc-27723



BACKGROUND

Sphingolipid long-chain base phosphates regulate cell proliferation, movement and differentiation in higher eukaryotes. Lcb4 is a sphingoid long-chain base kinase responsible for synthesis of long-chain base phosphates. Lcb4 kinase activity is detectable in the membrane fraction of yeast cells. Lcb4 can use phytosphingosine, dihydrosphingosine, or sphingosine as a substrate. Lcb4 localizes to the trans-Golgi network and late endosomes and cycles between these compartments. Lcb4 faces the cytosol and is probably bound to membranes by protein-protein interactions.

REFERENCES

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SOURCE

Lcb4 (yN-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Lcb4 of *Saccharomyces cerevisiae* origin.

PRODUCT

Each vial contains 200 μ g lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27723 P, (100 μ g 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

Lcb4 (yN-15) is recommended for detection of Lcb4 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-2033 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.