# SANTA CRUZ BIOTECHNOLOGY, INC.

# Frabin (R-18): sc-8597



The Power to Question

### BACKGROUND

The Rho subfamily of Ras-related GTPases controls multiple aspects of cell function, including cytoskeletal rearrangement, nuclear signaling, and cell growth. The Rho family GTPases function as regulated switches that toggle between a biologically active GTP-bound and an inactive GDP-bound form. This activation is catalyzed by guanine nucleotide exchange factors (GEFs). The Dbl-related proteins are a large family of structurally related molecules that have a common ability to catalyze GEF activity for specific members of the Rho family. FGD1, a Dbl-related protein also known as fasciogenital dysplasia gene product, functions as a GEF for the Rho family member CDC42. Frabin, also known as FGD1-related F-actin binding protein, catalyzes CDC42 GEF activity and binds actin filaments, implicating it as a potential link between CDC42 and the cytoskeleton.

# **REFERENCES**

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- Obaishi, H., Nakanishi, H., Mandai, K., Satoh, K, Satoh, A., Takahashi, K., Miyahara, M., Nishioka, H., Takaishi, K. and Takai, Y. 1998. Frabin, a novel FGD1-related actin filament-binding protein capable of changing cell shape and activating c-Jun N-terminal kinase. J. Biol. Chem. 273: 18697-18700.

#### SOURCE

Frabin (R-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Frabin of rat origin.

#### PRODUCT

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

Blocking peptide available for competition studies, sc-8597 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.

#### APPLICATIONS

Frabin (R-18) is recommended for detection of Frabin of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for Frabin siRNA (m): sc-41718, Frabin shRNA Plasmid (m): sc-41718-SH and Frabin shRNA (m) Lentiviral Particles: sc-41718-V.

## **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. 2) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **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.