Frabin (43): sc-136333

**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**


**CHROMOSOMAL LOCATION**

Genetic locus: FGD4 (human) mapping to 12p11.21; Fgd4 (mouse) mapping to 16 A3.

**SOURCE**

Frabin (43) is a mouse monoclonal antibody raised against amino acids 91-192 of Frabin of rat origin.

**PRODUCT**

Each vial contains 200 µg IgGκ light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Frabin (43) is available conjugated to agarose (sc-136333 AC), 500 µg/0.25 ml agarose in 1 ml, for IP, and to HRP (sc-136333 HRP), 200 µg/ml, for WB, HRP(P) and ELISA.

**APPLICATIONS**

Frabin (43) is recommended for detection of Frabin of mouse, rat and human 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).


Molecular Weight of Frabin: 105 kDa.


**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516410 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**SELECT PRODUCT CITATIONS**


**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 for detailed protocols and support products.

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**PRODUCT**

Frabin (43): sc-136333. Western blot analysis of Frabin expression in Neuro-2A (A). EOC 20 (B), H4 (C), T865 (D) and IMR-32 (E) whole cell lysates.