JFC1 (F-6): sc-365657

**BACKGROUND**

Synaptotagmins, rabphilin-3A and DOC2 belong to a family of C-terminal type (C-type) tandem C2 proteins and are involved in vesicular trafficking. JFC1, also designated Slp1 (for synaptotagmin-like protein), belongs to a unique family of C-type tandem C2 proteins designated Slp. JFC1 contains two N-terminal Slp homology domains (SH), each of which comprise two conserved α-helical regions, designated SHD1 and SHD2. SHD1 and SHD2 specifically and directly bind the GTP-bound form of Rab 27a. JFC1 also binds phosphatidylinositol 3,4,5-triphosphate-binding ATPase. JFC1 is transcriptionally activated by NFκB and upregulated by TNFα in prostate carcinoma cells. JFC1 associates with the plasma membrane.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SYTL1 (human) mapping to 1p36.11; Sytl1 (mouse) mapping to 4 D2.3.

**SOURCE**

JFC1 (F-6) is a mouse monoclonal antibody raised against amino acids 471-550 mapping at the C-terminus of JFC1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. JFC1 (F-6) is available conjugated to agarose (sc-365657 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365657 HRP), 200 µg/ml, for WB, IHC/IP and ELISA, to either phycoerythrin (sc-365657 PE), fluorescein (sc-365657 FITC), Alexa Fluor® 488 (sc-365657 AF488), Alexa Fluor® 546 (sc-365657 AF546), Alexa Fluor® 594 (sc-365657 AF594) or Alexa Fluor® 647 (sc-365657 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FCM; and to either Alexa Fluor® 680 (sc-365657 AF680) or Alexa Fluor® 790 (sc-365657 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

*Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**APPLICATIONS**

JFC1 (F-6) is recommended for detection of JFC1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:1000-1:10000), 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 SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG 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-IgG BP-HRP (Cruz Marker): sc-2003 (0.5 ml agarose/2.0 ml). 4) Molecular Weight Standards: sc-2035, UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

JFC1 (F-6) Western blot analysis of JFC1 (expression in K-562 (A), HEL 92.1.7 (B), NCI-H929 (C), Jurkat (D), CTLL-2 (E) and U2OS (F)) whole cell lysates.

**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 for detailed protocols and support products.