

JFC1 (H-80): sc-33809

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), belong to a unique family of C-type tandem C2 proteins designated Slp. JFC1 contains two N-terminal Slp homology domains (SHD), which each 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 $\text{NF-}\kappa\text{B}$ and upregulated by $\text{TNF}\alpha$ in prostate carcinoma cells. JFC1 associates with the plasma membrane.

REFERENCES

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2. Fukuda, M., et al. 2001. Novel splicing isoforms of synaptotagmin-like proteins 2 and 3: identification of the Slp homology domain. *Biochem. Biophys. Res. Commun.* 283: 513-519.
3. McAdara Berkowitz, J.K., et al. 2001. JFC1, a novel tandem C2 domain-containing protein associated with the leukocyte NADPH oxidase. *J. Biol. Chem.* 276: 18855-18862.
4. Kuroda, T.S., et al. 2002. The Slp homology domain of synaptotagmin-like proteins 1-4 and Slac2 functions as a novel Rab 27a binding domain. *J. Biol. Chem.* 277: 9212-9218.
5. Strom, M., et al. 2002. A family of Rab 27-binding proteins. Melanophilin links Rab 27a and Myosin Va function in melanosome transport. *J. Biol. Chem.* 277: 25423-25430.
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7. Catz, S.D., Babior, B.M., and Johnson, J.L. 2002. JFC1 is transcriptionally activated by nuclear factor κB and up-regulated by tumor necrosis factor α in prostate carcinoma cells. *Biochem. J.* 367: 791-799.

CHROMOSOMAL LOCATION

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

SOURCE

JFC1 (H-80) is a rabbit polyclonal antibody raised against amino acids 471-550 mapping at the C-terminus of JFC1 of human origin.

PRODUCT

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

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

JFC1 (H-80) is recommended for detection of JFC1 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)], 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).

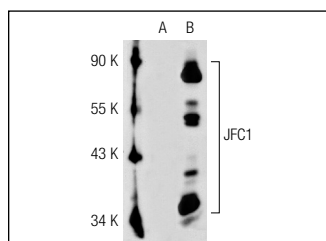
JFC1 (H-80) is also recommended for detection of JFC1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for JFC1 siRNA (h): sc-40717, JFC1 siRNA (m): sc-40718, JFC1 shRNA Plasmid (h): sc-40717-SH, JFC1 shRNA Plasmid (m): sc-40718-SH, JFC1 shRNA (h) Lentiviral Particles: sc-40717-V and JFC1 shRNA (m) Lentiviral Particles: sc-40718-V.

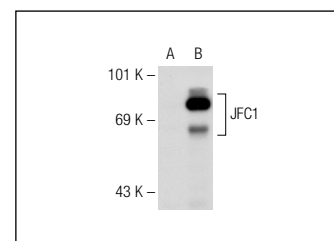
Molecular Weight of JFC1: 62 kDa.

Positive Controls: JFC1 (h2): 293T Lysate: sc-171478.

DATA



JFC1 (H-80): sc-33809. Western blot analysis of JFC1 expression in non-transfected: sc-117752 (A) and human JFC1 transfected: sc-115358 (B) 293T whole cell lysates.



JFC1 (H-80): sc-33809. Western blot analysis of JFC1 expression in non-transfected: sc-117752 (A) and human JFC1 transfected: sc-171841 (B) 293T 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.

PROTOCOLS

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


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Try **JFC1 (E-8): sc-365933** or **JFC1 (F-6): sc-365657**, our highly recommended monoclonal alternatives to JFC1 (H-80).