**BACKGROUND**

Fizzy-related protein, known as fzr, is a conserved eukaryotic gene that has been recently identified as a 7 WD domain family member and is implicated in cell cycle regulation of *Drosophila* and yeast. Retroviral overexpression of fzr in B-lymphoma cells reduces tumor formation. Fzr overexpression increases B-lymphoma cell susceptibility to natural killer cell (NK) cytotoxicity. Fzr has been implicated in a new category of genes which suppress B cell tumorigenesis. Current research suggests a novel role for fzr in the target cell interaction with NK cells. Fzr also negatively regulates the levels of cyclins A, B and B3. Loss of fzr causes progression through an extra division cycle in the epidermis and inhibition of endoreduplication in the salivary gland, in addition to failure of cyclin removal. Conversely, premature fzr overexpression downregulates mitotic cyclins, inhibits mitosis and transforms mitotic cycles into endoreduplication cycles.

**CHROMOSOMAL LOCATION**

Genetic locus: FZR1 (human) mapping to 19p13.3; Fzr1 (mouse) mapping to 10 C1.

**SOURCE**

fzr (DCS-266) is a mouse monoclonal antibody raised against full length fzr of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

fzr (DCS-266) is available conjugated to agarose (sc-56312AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-56312 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-56312 PE), fluorescein (sc-56312 FITC), Alexa Fluor® 488 (sc-56312 AF488), Alexa Fluor® 546 (sc-56312 AF546), Alexa Fluor® 594 (sc-56312 AF594) or Alexa Fluor® 647 (sc-56312 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-56312 AF680) or Alexa Fluor® 790 (sc-56312 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

fzr (DCS-266) is recommended for detection of fzr 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), immunohistochemistry (including paraffin-embedded sections) (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 fzr siRNA (h): sc-44349, fzr siRNA (m): sc-145283, fzr shRNA Plasmid (h): sc-44349-SH, fzr shRNA Plasmid (m): sc-145283-SH, fzr shRNA (h) Lentiviral Particles: sc-44349-V and fzr shRNA (m) Lentiviral Particles: sc-145283-V.

Molecular Weight of fzr: 55 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or fzr (m): 293T Lysate: sc-120348.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

![fzr (DCS-266): sc-56312. Western blot analysis of fzr expression in non-transfected: sc-117752 (A) and mouse fzr transfected: sc-120348 (B) 293T whole cell lysates.](image)

**SELECT PRODUCT CitATIONS**


**RESEARCH USE**

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

**PROTOKOLS**

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

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