SANTA CRUZ BIOTECHNOLOGY, INC.

Fibulin-1 (B-2): sc-374539

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Fibulin-1 is a modular glycoprotein component of the elastic extracellular matrix fibers, basement membranes and blood. Fibulin-1 self associates as well as binds to calcium, Fibronectin, Laminin, nidogen and Fibrinogen. These interactions, individually or in combination, may account for the observed association of Fibulin-1 with basement membranes, connective tissue, elastic fibers and fibrin clots. Fibulin-1 expression is stimulated by estrogen in ovarian cancer cell lines and has been suggested as both an agent of metastasis in ovarian cancer cells and an indicator for predicting cancer risk or aggressiveness in ovarian carcinomas. Other studies point to the inhibition of cancer cell motility with increasing exposure to Fibulin-1. The exact function of Fibulin-1 in the cell is unknown.

REFERENCES

1. Clinton, G.M., et al. 1996. Estrogens increase the expression of Fibulin-1, an extracellular matrix protein secreted by human ovarian cancer cells. Proc. Natl. Acad. Sci. USA 93: 316-320.
2. Tran, H., et al. 1997. The self-association and Fibronectin-binding sites of Fibulin-1 map to calcium-binding epidermal growth factor-like domains. J. Biol. Chem. 272: 22600-22606.
3. Barth, J.L., et al. 1998. Identification of chicken and *C. elegans* Fibulin-1 homologs and characterization of the *C. elegans* Fibulin-1 gene. Matrix Biol. 17: 635-646.
4. Hayashido, Y., et al. 1998. Estradiol and Fibulin-1 inhibit motility of human ovarian- and breast-cancer cells induced by Fibronectin. Int. J. Cancer 75: 654-658.
5. Rochefort, H., et al. 1998. Estrogen receptor mediated inhibition of cancer cell invasion and motility: an overview. J. Steroid Biochem. Mol. Biol. 65: 163-168.

CHROMOSOMAL LOCATION

Genetic locus: FBLN1 (human) mapping to 22q13.31; Fbln1 (mouse) mapping to 15 E2.

SOURCE

Fibulin-1 (B-2) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 83-117 within an internal region of Fibulin-1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-374539 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

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

APPLICATIONS

Fibulin-1 (B-2) is recommended for detection of all Fibulin-1 isoforms of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for Fibulin-1 siRNA (h): sc-35372, Fibulin-1 siRNA (m): sc-35373, Fibulin-1 shRNA Plasmid (h): sc-35372-SH, Fibulin-1 shRNA Plasmid (m): sc-35373-SH, Fibulin-1 shRNA (h) Lentiviral Particles: sc-35372-V and Fibulin-1 shRNA (m) Lentiviral Particles: sc-35373-V.

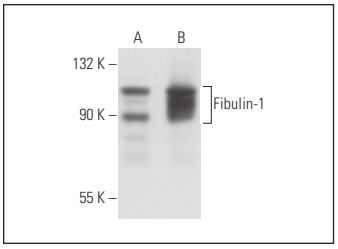
Molecular Weight of Fibulin-1: 100 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, CCD-1064Sk cell lysate: sc-2263 or ZR-75-1 cell lysate: sc-2241.

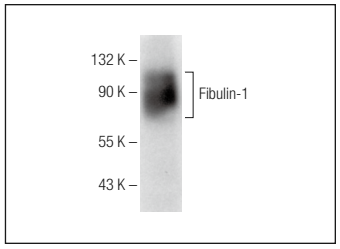
RECOMMENDED SUPPORT REAGENTS

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-516140 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



Fibulin-1 (B-2): sc-374539. Western blot analysis of Fibulin-1 expression in A-431 (**A**) and OVCAR-3 (**B**) whole cell lysates.



Fibulin-1 (B-2): sc-374539. Western blot analysis of Fibulin-1 expression in CCD-1064Sk whole cell lysate.

RESEARCH USE

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

CONJUGATES

See **Fibulin-1 (B-5): sc-25281** for Fibulin-1 conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.