

Fibulin-1 (N-19): sc-8674

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. Roger, P., et al. 1998. Increased immunostaining of Fibulin-1, an estrogen-regulated protein in the stroma of human ovarian epithelial tumors. *Am. J. Pathol.* 153: 1579-1588.
5. 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.
6. Rochefort, H., et al. 1998. Estrogen receptor mediated inhibition of cancer cell invasion and motility: an overview. *Steroid Biochem. Mol. Biol.* 65: 163-168.
7. Pan, T.C., et al. 1999. Complete exon-intron organization of the mouse Fibulin-1 gene and its comparison with the human Fibulin-1 gene. *FEBS Lett.* 444: 38-42.

CHROMOSOMAL LOCATION

Genetic locus: FBLN1 (human) mapping to 22q13.31.

SOURCE

Fibulin-1 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Fibulin-1 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.

Blocking peptide available for competition studies, sc-8674 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Fibulin-1 (N-19) is recommended for detection of all Fibulin-1 isoforms of 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).

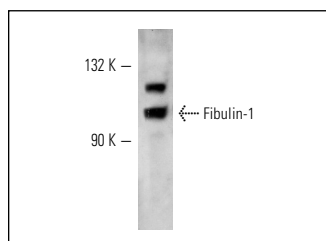
Fibulin-1 (N-19) is also recommended for detection of all Fibulin-1 isoforms in additional species, including canine.

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

Molecular Weight of Fibulin-1: 100 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, CCD-1064Sk cell lysate: sc-2263 or ZR-75-1 cell lysate: sc-2241.

DATA



Fibulin-1 (N-19): sc-8674. Western blot analysis of Fibulin-1 expression in HeLa whole cell lysate.

SELECT PRODUCT CITATIONS

1. Quartu, M., et al. 2005. Neurturin, persephin, and artemin in the human pre- and full-term newborn and adult hippocampus and fascia dentata. *Brain Res.* 1041: 157-166.

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.



Try **Fibulin-1 (B-5): sc-25281** or **Fibulin-1 (A-5): sc-55470**, our highly recommended monoclonal alternatives to Fibulin-1 (N-19). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **Fibulin-1 (B-5): sc-25281**.