

Fibulin-1 (C-16): sc-8675

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

- 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.
- 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.
- 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.
- 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.

CHROMOSOMAL LOCATION

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

SOURCE

Fibulin-1 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus 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-8675 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

Fibulin-1 (C-16) is recommended for detection of all Fibulin-1 isoforms 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).

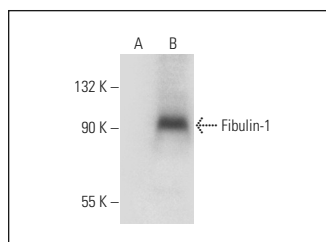
Fibulin-1 (C-16) is also recommended for detection of all Fibulin-1 isoforms in additional species, including equine, canine and porcine.

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.

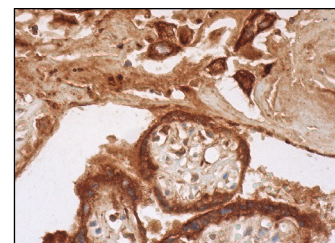
Molecular Weight of Fibulin-1: 100 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, CCD-1064Sk cell lysate: sc-2263 or Fibulin-1 (h): 293T Lysate: sc-159220.

DATA



Fibulin-1 (C-16): sc-8675. Western blot analysis of Fibulin-1 expression in non-transfected: sc-117752 (A) and human Fibulin-1 transfected: sc-159220 (B) 293T whole cell lysates.



Fibulin-1 (C-16): sc-8675. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing cytoplasmic staining of trophoblastic cells and decidual cells.

SELECT PRODUCT CITATIONS

- Hu, W.P., et al. 2006. Endometriosis-specific genes identified by real-time reverse transcription-polymerase chain reaction expression profiling of endometriosis versus autologous uterine endometrium. *J. Clin. Endocrinol. Metab.* 91: 228-238.
- Rehn, A.P., et al. 2007. ADAMTS-1 increases the three-dimensional growth of osteoblasts through type I collagen processing. *Bone* 41: 231-238.



Try **Fibulin-1 (B-5): sc-25281** or **Fibulin-1 (A-5): sc-55470**, our highly recommended monoclonal alternatives to Fibulin-1 (C-16). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **Fibulin-1 (B-5): sc-25281**.