SANTA CRUZ BIOTECHNOLOGY, INC.

Fibulin-1 (H-190): sc-20818

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.

CHROMOSOMAL LOCATION

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

SOURCE

Fibulin-1 (H-190) is a rabbit polyclonal antibody raised against amino acids 1-190 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.

APPLICATIONS

Fibulin-1 (H-190) is recommended for detection of all Fibulin-1 isoforms of human and, to a lesser extent, mouse and rat 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).

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.

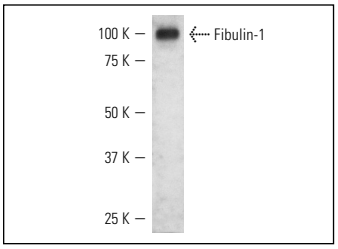
Molecular Weight of Fibulin-1: 100 kDa.

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

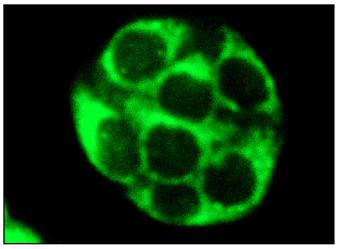
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Fibulin-1 (H-190): sc-20818. Western blot analysis of Fibulin-1 expression in CCD-1064Sk whole cell lysate.



Fibulin-1 (H-190): sc-20818. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and extracellular localization.

SELECT PRODUCT CITATIONS

1. Nakamoto, T., et al. 2005. Progesterone induces the Fibulin-1 expression in human endometrial stromal cells. Hum. Reprod. 20: 1447-1455.
2. Ng, K.M., et al. 2006. Evidence that Fibulin family members contribute to the steroid-dependent extravascular sequestration of sex hormone-binding globulin. J. Biol. Chem. 281: 15853-15861.
3. Ducros, E., et al. 2007. Expression of extracellular matrix proteins fibulin-1 and fibulin-2 by human corneal fibroblasts. Curr. Eye Res. 32: 481-490.
4. García, A., et al. 2011. High-resolution two-dimensional gel electrophoresis analysis of atrial tissue proteome reveals down-regulation of fibulin-1 in atrial fibrillation. Int. J. Cardiol. 150: 283-290.

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.