

Fibulin-1 (B-5): sc-25281

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.

CHROMOSOMAL LOCATION

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

SOURCE

Fibulin-1 (B-5) is a mouse monoclonal antibody raised against amino acids 1-190 of Fibulin-1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Fibulin-1 (B-5) is available conjugated to agarose (sc-25281 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-25281 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-25281 PE), fluorescein (sc-25281 FITC), Alexa Fluor® 488 (sc-25281 AF488), Alexa Fluor® 546 (sc-25281 AF546), Alexa Fluor® 594 (sc-25281 AF594) or Alexa Fluor® 647 (sc-25281 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-25281 AF680) or Alexa Fluor® 790 (sc-25281 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

Fibulin-1 (B-5) is recommended for detection of Fibulin-1 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:5,000), 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 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, BJ whole cell lysate: sc-364359 or CCD-1064Sk cell lysate: sc-2263.

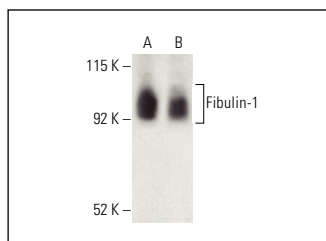
STORAGE

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

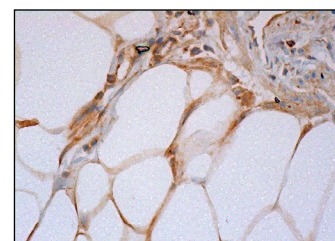
RESEARCH USE

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

DATA



Fibulin-1 (B-5): sc-25281. Western blot analysis of Fibulin-1 expression in BJ (A) and HeLa (B) whole cell lysates. Detection reagent used: m-IgG Fc Bp-HRP: sc-525409.



Fibulin-1 (B-5): sc-25281. Immunoperoxidase staining of formalin fixed, paraffin-embedded human soft tissue showing membrane staining of adipocytes and cytoplasmic staining of fibroblasts.

SELECT PRODUCT CITATIONS

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- Feng, L., et al. 2016. Low expression of Fibulin-1 correlates with unfavorable prognosis in gastric cancer. *Tumour Biol.* 37: 9399-9410.
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PROTOCOLS

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

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