SANTA CRUZ BIOTECHNOLOGY, INC.

Fibronectin (617): sc-81769



BACKGROUND

Fibronectin is an extracellular matrix glycoprotein present on most cell surfaces, in extracellular fluids and in plasma. A high molecular weight heterodimeric protein, it was originally discovered as a protein missing from the surfaces of virus-transformed cells, and it has been shown to be involved in various functions including cell adhesion, cell motility and wound healing. Alternative splicing and glycosylation give rise to several different forms of Fibronectin, some of which exhibit restricted tissue distribution or association with malignancies. It has been shown that myofibroblast phenotype formation correlates with the occurrence of glycosylated Fibronectin and Fibronectin splice variants in Dupuytren's disease.

REFERENCES

- Akiyama, S.K., et al. 1981. The structure of Fibronectin and its role in cellular adhesion. J. Supramol. Struct. Cell. Biochem. 16: 345-348.
- Ruoslahti, E., et al. 1982. Molecular and biological interactions of Fibronectin. J. Invest. Dermatol. 79: 65-68.
- 3. Keen, J., et al. 1984. Monoclonal antibodies that distinguish between human cellular and plasma Fibronectin. Mol. Biol. Med. 2: 15-27.
- Keski-Oja, J., et al. 1987. Fibronectin and viral pathogenesis. Rev. Infect. Dis. 9: 404-411.

CHROMOSOMAL LOCATION

Genetic locus: FN1 (human) mapping to 2q35.

SOURCE

Fibronectin (617) is a mouse monoclonal antibody raised against Fibronectin secreted by embryonic fibroblasts of human origin.

PRODUCT

Each vial contains 200 $\mu g \; lgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

Fibronectin (617) is recommended for detection of Fibronectin COOH-terminal Fibrin-binding domain of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Fibronectin siRNA (h): sc-29315, Fibronectin shRNA Plasmid (h): sc-29315-SH and Fibronectin shRNA (h) Lentiviral Particles: sc-29315-V.

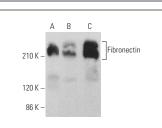
Molecular Weight of Fibronectin: 220 kDa.

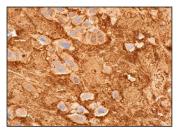
Positive Controls: U-87 MG cell lysate: sc-2411, ACHN whole cell lysate: sc-364365 or Caki-1 cell lysate: sc-2224.

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. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA





Fibronectin (617): sc-81769. Western blot analysis of Fibronectin expression in U-87 MG (A), ACHN (B) and Caki-1 (C) whole cell lysates.

Fibronectin (617): sc-81769. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing staining of extracellular

SELECT PRODUCT CITATIONS

- Chen, Z., et al. 2016. LYTAK1, a TAK1 inhibitor, suppresses proliferation and epithelial-mesenchymal transition in retinal pigment epithelium cells. Mol. Med. Rep. 14: 145-150.
- Hu, J., et al. 2016. miRNA-223 inhibits epithelial-mesenchymal transition in gastric carcinoma cells via Sp1. Int. J. Oncol. 49: 325-335.
- Gong, J., et al. 2017. miRNA-1271 inhibits cell proliferation in neuroglioma by targeting Fibronectin 1. Mol. Med. Rep. 16: 143-150.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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



See Fibronectin (EP5): sc-8422 for Fibronectin antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.