

Fibronectin (C6F10): sc-73611

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.

CHROMOSOMAL LOCATION

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

SOURCE

Fibronectin (C6F10) is a mouse monoclonal antibody raised against plasma fibronectin of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Fibronectin (C6F10) is available conjugated to agarose (sc-73611 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-73611 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-73611 PE), fluorescein (sc-73611 FITC), Alexa Fluor® 488 (sc-73611 AF488), Alexa Fluor® 546 (sc-73611 AF546), Alexa Fluor® 594 (sc-73611 AF594) or Alexa Fluor® 647 (sc-73611 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-73611 AF680) or Alexa Fluor® 790 (sc-73611 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

Fibronectin (C6F10) is recommended for detection of Fibronectin III-10 of human, monkey, porcine, bovine, equine, avian and amphibian 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 immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with other serum proteins.

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: 230 kDa.

Positive Controls: HT-1080 whole cell lysate: sc-364183, U-87 MG cell lysate: sc-2411 or human platelet extract: sc-363773.

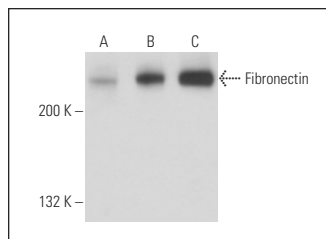
STORAGE

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

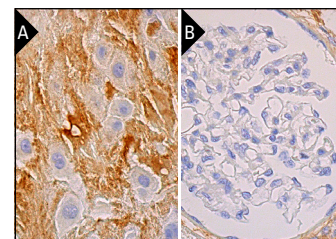
RESEARCH USE

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

DATA



Fibronectin (C6F10): sc-73611. Western blot analysis of Fibronectin expression in U-87 MG (A) and HT-1080 (B) whole cell lysates and human platelet extract (C).



Fibronectin (C6F10): sc-73611. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta (A) and human kidney (B) tissues showing staining of extracellular matrix.

SELECT PRODUCT CITATIONS

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- Kick, K., et al. 2016. New view on endothelial cell migration: switching modes of migration based on matrix composition. *Arterioscler. Thromb. Vasc. Biol.* 36: 2346-2357.
- Zhang, X., et al. 2017. MicroRNA-34a suppresses colorectal cancer metastasis by regulating Notch signaling. *Oncol. Lett.* 14: 2325-2333.
- Ma, S., et al. 2019. Histone deacetylases inhibitor MS-275 suppresses human esophageal squamous cell carcinoma cell growth and progression via the PI3K/Akt/mTOR pathway. *J. Cell. Physiol.* 234: 22400-22410.
- Nkosi, D., et al. 2020. Epstein-Barr virus LMP1 manipulates the content and functions of extracellular vesicles to enhance metastatic potential of recipient cells. *PLoS Pathog.* 16: e1009023.
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PROTOCOLS

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

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