

# Fibronectin (H-300): sc-9068

## 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; Fn1 (mouse) mapping to 1 C3.

## SOURCE

Fibronectin (H-300) is a rabbit polyclonal antibody raised against amino acids 2087-2386 mapping at the C-terminus of Fibronectin 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

Fibronectin (H-300) is recommended for detection of Fibronectin of mouse, rat, human, *Xenopus laevis* and zebrafish 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).

Fibronectin (H-300) is also recommended for detection of Fibronectin in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Fibronectin siRNA (h): sc-29315, Fibronectin siRNA (m): sc-35371, Fibronectin shRNA Plasmid (h): sc-29315-SH, Fibronectin shRNA Plasmid (m): sc-35371-SH, Fibronectin shRNA (h) Lentiviral Particles: sc-29315-V and Fibronectin shRNA (m) Lentiviral Particles: sc-35371-V.

Molecular Weight of Fibronectin: 220 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, CCD-1064Sk cell lysate: sc-2263 or 3611-RF whole cell lysate: sc-2215.

## STORAGE

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

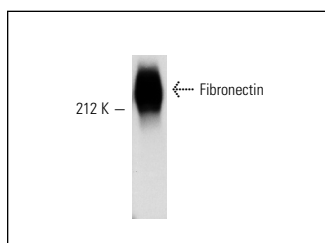
## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

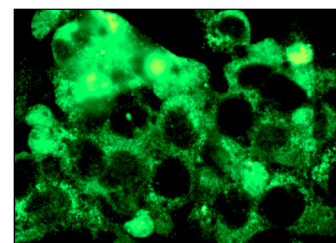
## RESEARCH USE

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

## DATA



Fibronectin (H-300): sc-9068. Western blot analysis of Fibronectin expression in Hep G2 whole cell lysate.



Fibronectin (H-300): sc-9068. Immunofluorescence staining of methanol-fixed Hep G2 cells showing cytoplasmic and extracellular localization.

## SELECT PRODUCT CITATIONS

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3. Schaafsma, D., et al. 2011. Simvastatin inhibits TGFβ1-induced fibronectin in human airway fibroblasts. *Respir. Res.* 12: 13.
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5. Matos, L., et al. 2012. Copper ability to induce premature senescence in human fibroblasts. *Age* 34: 783-794.
6. Kuma, A., et al. 2014. Role of WNT10A-expressing kidney fibroblasts in acute interstitial nephritis. *PLoS ONE* 9: e103240.
7. Lee, B.H., et al. 2015. Modulation of Huh7.5 spheroid formation and functionality using modified PEG-based hydrogels of different stiffness. *PLoS ONE* 10: e0118123.
8. Khan, S., et al. 2015. Sodium valproate ameliorates diabetes-induced fibrosis and renal damage by the inhibition of histone deacetylases in diabetic rat. *Exp. Mol. Pathol.* 98: 230-239.
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