

Fibromodulin (H-50): sc-33772

BACKGROUND

Small leucine-rich proteoglycans (SLRPs) such as Decorin, Biglycan, Fibromodulin and Lumican mediate extracellular matrix organization and are binding partners of TGF β . Fibromodulin is a collagen-binding keratan sulphate proteoglycan that influences adhesion processes of connective tissue and plays a role in fibrillogenesis by regulating collagen fibril spacing and thickness. The core proteins of SLRPs consist of a central region of leucine-rich repeats flanked by disulfide-linkages of the terminal domains. Fibromodulin is an ubiquitous protein that is most prominent in articular cartilage, tendon and ligament. The human Fibromodulin gene maps to chromosome 1q32.1 and encodes a 376 amino acid protein.

CHROMOSOMAL LOCATION

Genetic locus: FMOD (human) mapping to 1q32.1; Fmod (mouse) mapping to 1 E4.

SOURCE

Fibromodulin (H-50) is a rabbit polyclonal antibody raised against amino acids 301-350 mapping near the C-terminus of Fibromodulin of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Fibromodulin (H-50) is recommended for detection of Fibromodulin of mouse, rat and 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Fibromodulin (H-50) is also recommended for detection of Fibromodulin in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Fibromodulin siRNA (h): sc-40995, Fibromodulin siRNA (m): sc-44823, Fibromodulin shRNA Plasmid (h): sc-40995-SH, Fibromodulin shRNA Plasmid (m): sc-44823-SH, Fibromodulin shRNA (h) Lentiviral Particles: sc-40995-V and Fibromodulin shRNA (m) Lentiviral Particles: sc-44823-V.

Molecular Weight of Fibromodulin: 67 kDa.

Positive Controls: Fibromodulin (h2): 293T Lysate: sc-170151.

RESEARCH USE

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

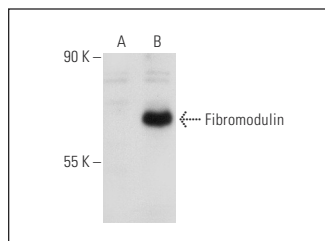
PROTOCOLS

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

STORAGE

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

DATA



Fibromodulin (H-50): sc-33772. Western blot analysis of Fibromodulin expression in non-transfected: sc-117752 (A) and human Fibromodulin transfected: sc-170151 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Lui, P.P., et al. 2010. Sustained expression of proteoglycans and collagen type III/type I ratio in a calcified tendinopathy model. *Rheumatology* 49: 231-239.
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- Honardoust, D., et al. 2011. Small leucine-rich proteoglycans, decorin and fibromodulin, are reduced in postburn hypertrophic scar. *Wound Repair Regen.* 19: 368-378.
- Watts, E.J., et al. 2011. Extracellular matrix expression by equine oral and limb fibroblasts in *in vitro* culture. *Res. Vet. Sci.* 92: 213-218.
- Welham, N.V., et al. 2011. Cross-sample validation provides enhanced proteome coverage in rat vocal fold mucosa. *PLoS ONE* 6: e17754.
- Waehre, A., et al. 2011. Lack of chemokine signaling through CXCR5 causes increased mortality, ventricular dilatation and deranged matrix during cardiac pressure overload. *PLoS ONE* 6: e18668.
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- Guanmei, W., et al. 2015. A novel role of matrix metalloproteinase-8 in macrophage differentiation and polarization. *J. Biol. Chem.* 290: 19158-19172.



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