BACKGROUND
Small leucine-rich proteoglycans (SLRPs), such as Decorin, Biglycan, Fibromodulin and Lumican, mediate extracellular matrix organization and are binding partners of TGFβ. 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 a ubiquitous protein that is most prominent in articular cartilage, tendon and ligament. The human Fibromodulin gene maps to chromosome 1q32 and encodes a 376 amino acid protein.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: FMOD (human) mapping to 1q32.1.

SOURCE
Fibromodulin (A-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 38-71 near the N-terminus of Fibromodulin of human origin.

PRODUCT
Each vial contains 200 µg IgG3 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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

APPLICATIONS
Fibromodulin (A-6) is recommended for detection of Fibromodulin of human origin by Western Blotting (starting dilution 1:100, 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).

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

Molecular Weight of Fibromodulin: 67 kDa.

Positive Controls: Fibromodulin (h): 293T Lysate: sc-114267.

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-mouse IgG-FITC: sc-2781 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2048 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA

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