**Fibromodulin (H-11): sc-166406**

**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 1q32.1 and encodes a 376 amino acid protein.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

Fibromodulin (H-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 43-71 near the N-terminus of Fibromodulin of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.2% stabilizer protein.

Fibromodulin (H-11) is available conjugated to agarose (sc-166406 AC), 500 µg/0.25 ml agarose in 1 ml for IP; to HRP (sc-166406 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166406 PE), fluorescein (sc-166406 FITC), Alexa Fluor® 488 (sc-166406 AF488), Alexa Fluor® 546 (sc-166406 AF546), Alexa Fluor® 594 (sc-166406 AF594) or Alexa Fluor® 647 (sc-166406 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166406 AF680) or Alexa Fluor® 790 (sc-166406 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM. Blocking peptide available for competition studies, sc-166406 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

Fibromodulin (H-11) is recommended for detection of Fibromodulin of mouse, rat and 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 lysis)], immunofluorescence (starting dilution 1:50, dilution range 1:50:1:500), immunohistochemistry (including paraffin-embedded sections) (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 siRNA (m): sc-44823, Fibromodulin shRNA Plasmid (h): sc-40995-SH, Fibromodulin siRNA Plasmid (m): sc-44823-SH, Fibromodulin shRNA (h) Lentiviral Particles: sc-40995-V and Fibromodulin shRNA (m) Lentiviral Particles: sc-44823-V.

**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.