**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 IgG<sub>k</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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, (ICP) and ELISA; to either phycoerythrin (sc-166406 PE), fluorescein (sc-166406 FITC), Alexa Fluor<sup>®</sup> 488 (sc-166406 AF488), Alexa Fluor<sup>®</sup> 546 (sc-166406 AF546), Alexa Fluor<sup>®</sup> 594 (sc-166406 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-166406 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-166406 AF680) or Alexa Fluor<sup>®</sup> 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 lysate)], 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).


Molecular Weight of Fibromodulin: 67 kDa.

**Data**

Positive Controls: Hep G2 cell lysate: sc-2227, HeLa whole cell lysate: sc-2200 or A-431 whole cell lysate: sc-2201.

**Select Product Citations**


**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.