

Mouse Anti-Fibromodulin/FMOD [H11]: MC0187

Intended Use: For Research Use Only

Description: 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 the 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.

Specifications

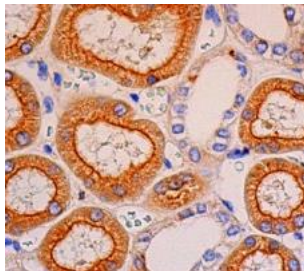
Clone:	H11
Source:	Mouse
Isotype:	IgG2b/k
Reactivity:	Human, mouse, rat
Localization:	Membrane, cytoplasm
Formulation:	Purified antibody in PBS pH7.4, containing BSA and \leq 0.09% sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	ELISA, IHC, IF, IP, WB
Package:	

Description	Catalog No.	Size
Fibromodulin/FMOD Concentrated	MC0187	1 ml

IHC Procedure*

Positive Control Tissue:	Kidney
Concentrated Dilution:	50-200
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human kidney tissue stained with anti-Fibromodulin using DAB

References:

1. Decorin blocks scarring and cystic cavitation in acute and induces scar dissolution in chronic spinal cord wounds. Ahmed Z, et al. Neurobiol Dis 64:163-76, 2014.
2. The paratenon contributes to scleraxis-expressing cells during patellar tendon healing. Dymnt NA, et al. PLoS One 8:e59944, 2013.
3. Enhancement of tenogenic differentiation of human adipose stem cells by tendon-derived extracellular matrix. Yang G, et al. Biomaterials 34:9295-306, 2013.
4. Spatial and temporal expression of molecular markers and cell signals during normal development of the mouse patellar tendon. Liu CF, et al. Tissue Eng Part A, 2011.
5. The small proteoglycan Fibromodulin is expressed in mitotic, but not in postmitotic fibroblasts. Petri, J.B., et al., Mol. Cell Biol. Res. Commun. 1: 59-65, 1999.