



MONOCLONAL ANTIBODY

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Catalog No. PRPG-FBM-M01

## Anti- Fibromodulin (636B12)

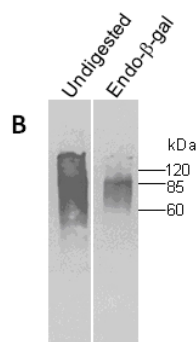
### BACKGROUND

Fibromodulin, encoded by the FMOD gene, is a member of a family of small interstitial proteoglycans containing a central region composed of leucine-rich repeats with 4 keratan sulfate chains flanked by disulfide-bonded terminal domains. Its core protein is roughly 58 kDa in size and in its fully glycosylated form reaches 150-200 kDa in molecular weight. Fibromodulin has been proposed to participate in the assembly of the extracellular matrix by linking to collagen type I and II and (negatively) controlling their fibrillogenesis in vitro and in vivo (as also confirmed by the altered collagen fibril structure observed in FMOD null mice). Fibromodulin may also influence TGF signalling by sequestering latent TGF- $\beta$ s into the extracellular matrix and is recognized to be a primary component of the tumour stroma (particularly well documented in epithelial tumours). Recent observations suggest that fibromodulin is a primary prognostic indicator in chronic lymphocytic B-cell leukemia.

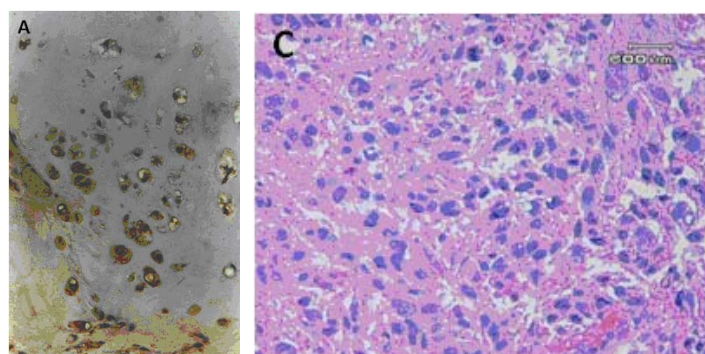
Product type	Primary antibodies
Immunogen	Purified human tendon fibromodulin
Raised in	Mouse
Myeloma	-
Clone number	636B12
Isotype	IgM
Host	-
Source	Hybridoma cell culture
Purification	-
Form	Liquid
Storage buffer	Supernatant supplemented with 0.05% NaN <sub>3</sub>
Concentration	ND
Volume	2 mL
Label	Unlabeled
Specificity	Fibromodulin
Cross reactivity	Human Other species have not been tested.
Storage	Store at 4°C for short-term storage and -20°C for prolonged storage Aliquot to avoid cycles of freeze / thaw.
Other	<b>Data Link</b> : UniProtKB/Swiss-Prot <a href="#">Q06828</a> (FMOD_HUMAN)

Application notes	WB, IHC
Recommended dilutions	<ul style="list-style-type: none"><li>Western blotting, 1/30 – 1/60</li><li>Immunohistochemistry, 1/25 - 1/70 **</li></ul> <p>**&lt;Staining Pattern&gt; Tendon, cartilages, various stromal tissues, various tumour cells and tumour stroma</p> <p>Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.</p>
References	-

## ANTIBODY CHARACTERIZATION



**Fig.1** Western blotting of undigested and endo- $\beta$ -galactosidase-digested human cartilage fibromodulin resolved by SDS-PAGE on 7% gels under reducing conditions (band at 60 kDa presumably corresponds to unglycosylated fibromodulin molecules of the intracellular pool).



**Fig.2** (A) Immunohistochemical staining of human articular cartilage  
(C) Immunohistochemical staining of a leiomyosarcoma lesion (labelling is primarily concentrated in the stromal compartment);

## RELATED PRODUCTS:

Product Name	Maker	Cat#
Anti Aggrecan (6F4) Monoclonal Antibody	CAC	PRPG-AG-M01
Anti Aggrecan (5D3) Monoclonal Antibody	CAC	PRPG-AG-M02
Anti Aggrecan (5G2) Monoclonal Antibody	CAC	PRPG-AG-M03
Anti Aggrecan (7B7) Monoclonal Antibody	CAC	PRPG-AG-M04
Anti Versican/CSPG2 (5C12) Monoclonal Antibody	CAC	PRPG-VS-M01
Anti Versican/CSPG2 (4C5) Monoclonal Antibody	CAC	PRPG-VS-M02
Anti NG2 / CSPG4 (2164H5) Monoclonal Antibody	CAC	PRPG-NG-M01
Anti COMP (484D1) Monoclonal Antibody	CAC	PRPG-CP-M01
Anti COMP (490D11) Monoclonal Antibody	CAC	PRPG-CP-M02
Anti Keratan sulfate (373E1) Monoclonal Antibody	CAC	PRPG-KS-M01
Anti Decorin (889C7) Monoclonal Antibody	CAC	PRPG-DC-M01
Anti Fibromodulin (636B12) Monoclonal Antibody	CAC	PRPG-FBM-M01
Anti Biglycan (905A7) Monoclonal Antibody	CAC	PRPG-BG-M01
Anti XTP1 (2191H1) Monoclonal Antibody	CAC	PRPG-XTP-M01
Anti SDP35 (2200D12) Monoclonal Antibody	CAC	PRPG-SDP-M01
Anti Laminin $\alpha$ 4 (652C4) Monoclonal Antibody	CAC	PRPG-LA4-M01
Anti Collagen 12 (378D5) Monoclonal Antibody	CAC	PRPG-CO12-M01

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