

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Fibromodulin/FMOD in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Lumican is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 549302
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Fibromodulin/FMOD Asp75-Ile376 Accession # NP_002014
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Fibromodulin (FMOD) is a Class II small leucine-rich proteoglycan (SLRP) superfamily member. The ~50-70 kDa protein contains a sulfated N-terminal complement C1q binding domain (aa 19-98) and 12 leucine-rich repeats (aa 75-376). A 40 kDa form is reported in dental tissues. It participates in collagen fibrillogenesis in many tissues and competes with Lumican for collagen binding. It can participate in inflammation by activating complement. In epidermal keratinocytes, it may be located in the cytoplasm. The region of human FMOD used as an immunogen shares 96% aa identity with mouse or rat FMOD.

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