Human/Mouse Lumican Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 358022

Catalog Number: FAB2846G

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Lumican in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 358022
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Lumican Gln19-Asn338 Accession # P51884
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

Lumican is a secreted matrix protein that belongs to the small leucine-rich proteoglycan (SLRP) class II family. Mature Lumican has a negatively charged N-terminal domain that contains tyrosine sulfates, followed by twelve leucine-rich repeats, which are flanked by cysteine loops. Lumican is expressed widely in mammalian connective tissues, while corneal Lumican exists as a keratan sulfate proteoglycan in adult cartilage, Lumican exists primarily as a glycoprotein and lacks keratan sulfate. The amino acid sequence of human Lumican shares 88% amino acid sequence identity with that of mature mouse Lumican.

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