

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse                                                                                                                                                                                                                                                                 |
| <b>Specificity</b>        | Detects human and mouse Lumican in direct ELISAs and Western blots.                                                                                                                                                                                                         |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 358022                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human Lumican<br>Gln19-Asn338<br>Accession # P51884                                                                                                                                                                         |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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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