Datasheet for ABIN3043386

# anti-LUM antibody (AA 68-338)

2 Images

Go to Product page

## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | LUM |
| Binding Specificity: | AA 68-338 |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This LUM antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), ELISA |

## Product Details

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| Purpose: | Anti-Lumican Antibody Picoband® |
| Immunogen: | E. coli-derived mouse Lumican recombinant protein (Position: I68-N338). Mouse Lumican shares 88.9% and 98.2% amino acid (aa) sequence identity with human and rat Lumican, respectively. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins |
| Characteristics: | Anti-Lumican Antibody Picoband® (ABIN3043386). Tested in ELISA, IHC, WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |

## Product Details

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| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | LUM |
| Alternative Name: | Lum (LUM Products) |
| Background: | Synonyms: Lumican,Keratan sulfate proteoglycan lumican,KSPG lumican,Lum,Lcn, Ldc,<br>Tissue Specificity: Cornea and other tissues.<br>Background: Lumican, also known as LUM, is an extracellular matrix protein that, in humans, is encoded by the LUM gene on chromosome 12. Lumican is a major keratan sulfate proteoglycan of the cornea but is ubiquitously distributed in most mesenchymal tissues throughout the body. And Lumican is involved in collagen fibril organization and circumferential growth, corneal transparency, and epithelial cell migration and tissue repair. Corneal transparency is possible due to the exact alignment of collagen fibers by lumican (and keratocan) in the intrafibrillar space. |
| Molecular Weight: | 60 kDa |
| Gene ID: | 17022 |
| UniProt: | P51885 |
| Pathways: | Glycosaminoglycan Metabolic Process |

## Application Details

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| Application Notes: | Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Mouse<br>ELISA, 0.1-0.5 µg/mL, -<br>Western blot, 0.1-0.5 µg/mL, Mouse<br>1. "Entrez Gene: LUM lumican". 2. Chakravarti S, Stallings RL, SundarRaj N, Cornuet PK, Hassell JR (Jun 1995). "Primary structure of human lumican (keratan sulfate proteoglycan) and localization of the gene (LUM) to chromosome 12q21.3-q22". Genomics27 (3): 481-8. 3. Chakravarti S (2002). "Functions of lumican and fibromodulin: lessons from knockout mice". Glycoconjugate Journal 19 (4-5): 287-93. |
| Comment: | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P). |
| Restrictions: | For Research Use only |

## Handling

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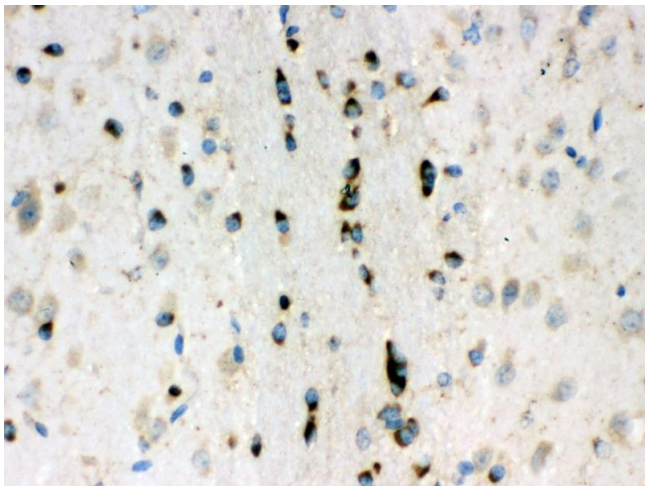
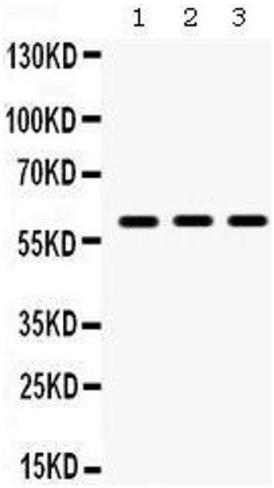
| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |

## Images



**Immunohistochemistry**

**Image 1.** Anti- Lumican Picoband antibody, IHC(P) IHC(P): Mouse Brain Tissue




**Western Blotting**

**Image 2.**