

Anti-Lumican Picoband Antibody
Catalog # ABO12348**Specification**

Anti-Lumican Picoband Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P51885
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Lumican(LUM) detection. Tested with WB, IHC-P, ELISA in Mouse.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Lumican Picoband Antibody - Additional Information

Gene ID 17022

Other Names

Lumican, Keratan sulfate proteoglycan lumican, KSPG lumican, Lum, Lcn, Ldc

Calculated MW

38265 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, By Heat

ELISA
, 0.1-0.5 µg/ml, Mouse, -
Western blot, 0.1-0.5 µg/ml, Mouse

Subcellular Localization

Secreted, extracellular space, extracellular matrix .

Tissue Specificity

Cornea and other tissues.

Protein Name

Lumican

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

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.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Lumican Picoband Antibody - Protein Information

Name Lum

Synonyms Lcn, Ldc

Cellular Location

Secreted, extracellular space, extracellular matrix

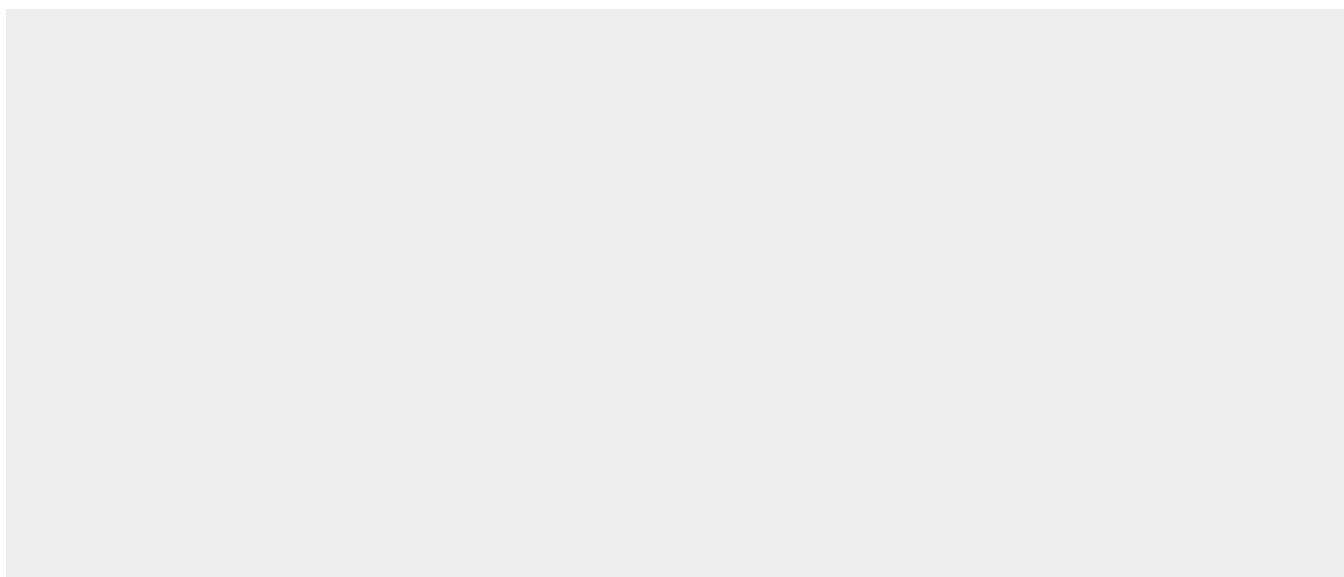
Tissue Location

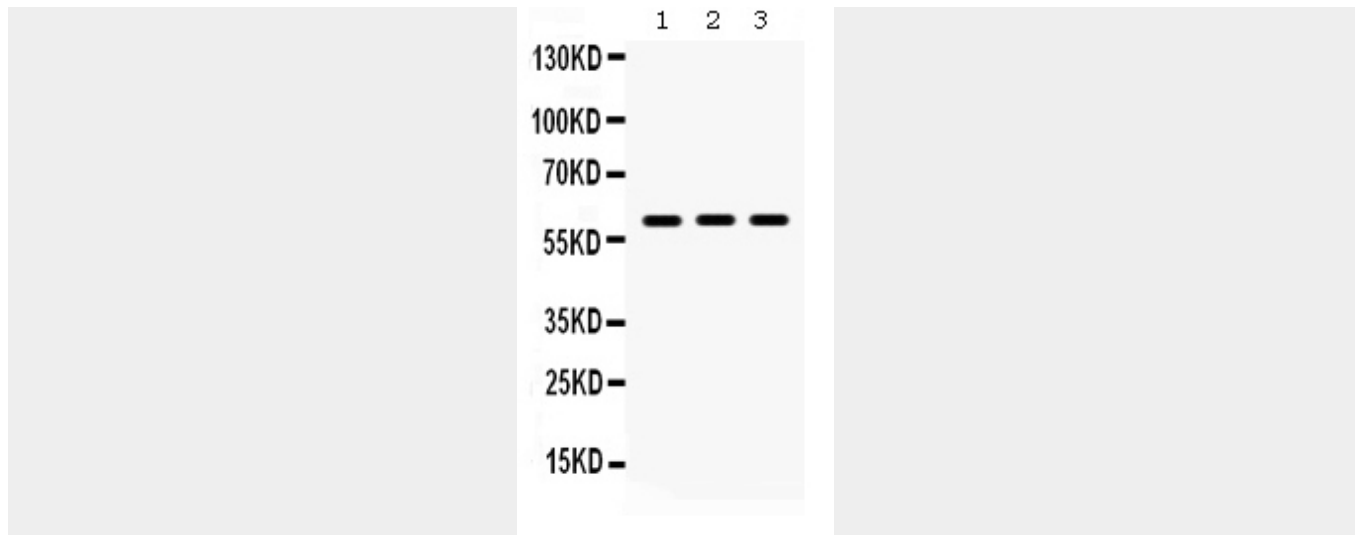
Cornea and other tissues.

Anti-Lumican Picoband Antibody - Protocols

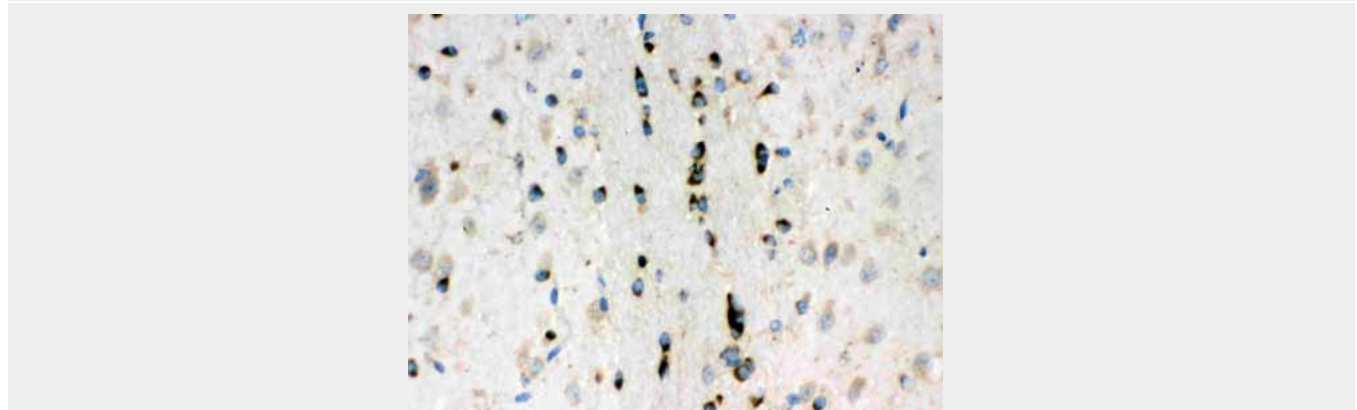
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Lumican Picoband Antibody - Images



Anti- Lumican Picoband antibody, ABO12348, Western blotting All lanes: Anti Lumican (ABO12348) at 0.5ug/ml Lane 1: Mouse Testis Tissue Lysate at 50ug Lane 2: Mouse Thymus Tissue Lysate at 50ug Lane 3: NIH3T3 Whole Cell Lysate at 40ug Predicted bind size: 38KD Observed bind size: 60KD



Anti- Lumican Picoband antibody, ABO12348, IHC(P) IHC(P): Mouse Brain Tissue

Anti-Lumican Picoband Antibody - 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.