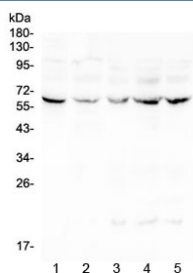


## LUM Antibody / Lumican (RQ4587)

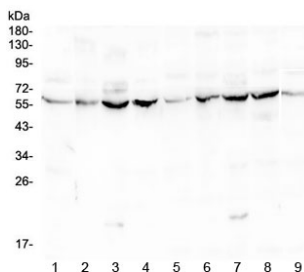
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| RQ4587      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

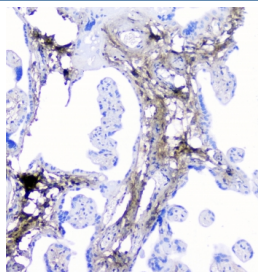
|                           |                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                                                             |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                                                                             |
| <b>Format</b>             | Antigen affinity purified                                                                                     |
| <b>Host</b>               | Rabbit                                                                                                        |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                                                                    |
| <b>Isotype</b>            | Rabbit IgG                                                                                                    |
| <b>Purity</b>             | Antigen affinity purified                                                                                     |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide                                             |
| <b>UniProt</b>            | P51884                                                                                                        |
| <b>Localization</b>       | Secreted, cytoplasmic                                                                                         |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml<br>IHC (FFPE) : 1-2ug/ml<br>Direct ELISA : 0.1-0.5ug/ml (recombinant human protein) |
| <b>Limitations</b>        | This LUM antibody is available for research use only.                                                         |



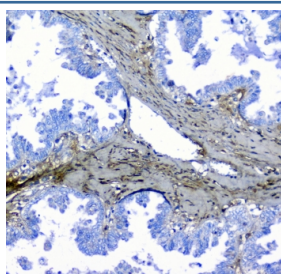
Western blot testing of human 1) placenta, 2) Caco-2, 3) CCRF-CEM, 4) HeLa and 5) Jurkat lysate with LUM antibody at 0.5ug/ml. Expected molecular weight: ~40 kDa (unmodified), ~60 kDa (glycosylated).



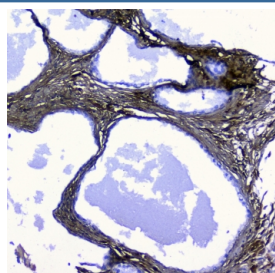
Western blot testing of mouse 1) liver, 2) ovary, 3) testis, 4) lung and rat 5) liver, 6) ovary, 7) testis, 8) lung and 9) heart lysate with LUM antibody at 0.5ug/ml. Expected molecular weight: ~40 kDa (unmodified), ~60 kDa (glycosylated).



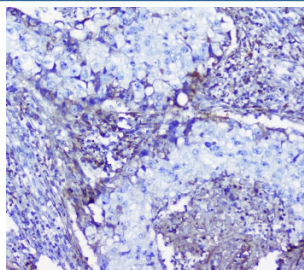
IHC staining of FFPE human placenta with LUM antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE human ovarian cancer with LUM antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE human pancreatic cancer with LUM antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE human lung cancer with LUM antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

## Description

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 interfibrillar space.

## Application Notes

Optimal dilution of the LUM antibody should be determined by the researcher.

## Immunogen

Amino acids A50-N338 from the human protein were used as the immunogen for the LUM antibody.

## Storage

After reconstitution, the LUM antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.