

## Product datasheet

# Anti-Lumican antibody [EPR22511-63] ab252925

Recombinant RabMAb

9 Images

### Overview

<b>Product name</b>	Anti-Lumican antibody [EPR22511-63]
<b>Description</b>	Rabbit monoclonal [EPR22511-63] to Lumican
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, IP <b>Unsuitable for:</b> Flow Cyt or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment within Human Lumican aa 1 to the C-terminus. The exact sequence is proprietary. Database link: <a href="#">P51884</a>
<b>Positive control</b>	WB: Human colon, skin, kidney and placenta tissue lysates; Saos-2 whole cell lysate; mouse skin tissue lysate; rat skin tissue lysate. IP: Mouse skin lysate; human skin lysate. IHC-P: Human colon tissue; mouse skin tissue; rat colon tissue.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise<sup>™</sup> guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been "predicted to work</p>

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22511-63
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab252925** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 40-73 kDa (predicted molecular weight: 38 kDa).
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30.

**Application notes** Is unsuitable for Flow Cyt or ICC/IF.

## Target

<b>Tissue specificity</b>	Cornea and other tissues.
<b>Sequence similarities</b>	Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class II subfamily. Contains 11 LRR (leucine-rich) repeats. Contains 1 LRRNT domain.
<b>Developmental stage</b>	Present in the extracellular matrix of human articular cartilage at all ages, although its abundance is far greater in the adult. In the adult cartilage lumican exists predominantly in a glycoprotein form lacking keratan sulfate, whereas the juvenile form of the molecule is a proteoglycan.

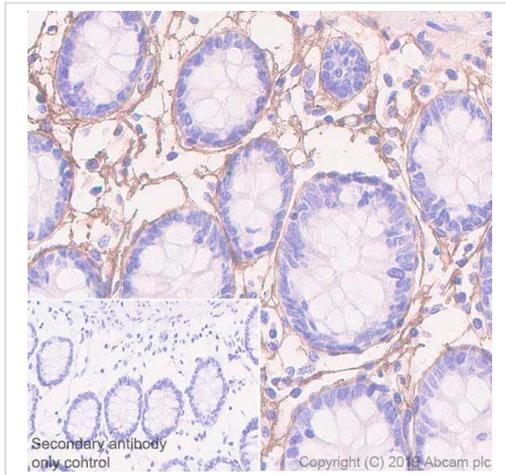
**Post-translational modifications**

Sulfated on tyrosine residue(s).

**Cellular localization**

Secreted > extracellular space > extracellular matrix.

**Images**

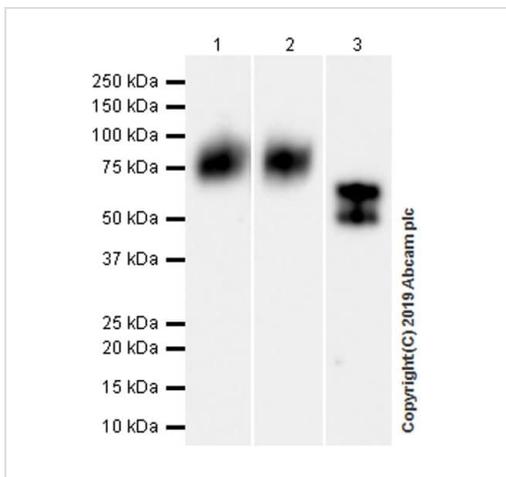


Immunohistochemical analysis of paraffin-embedded human colon tissue labeling Lumican with ab252925 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Positive staining in stroma cells of human colon (PMID:17089042; PMID:23399832) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody [EPR22511-63] (ab252925)



Western blot - Anti-Lumican antibody [EPR22511-63] (ab252925)

**All lanes** : Anti-Lumican antibody [EPR22511-63] (ab252925) at 1/1000 dilution

**Lane 1** : Human colon tissue lysate

**Lane 2** : Human skin tissue lysate

**Lane 3** : Human placenta tissue lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes** : VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

**Predicted band size:** 38 kDa

**Observed band size:** 50,70 kDa

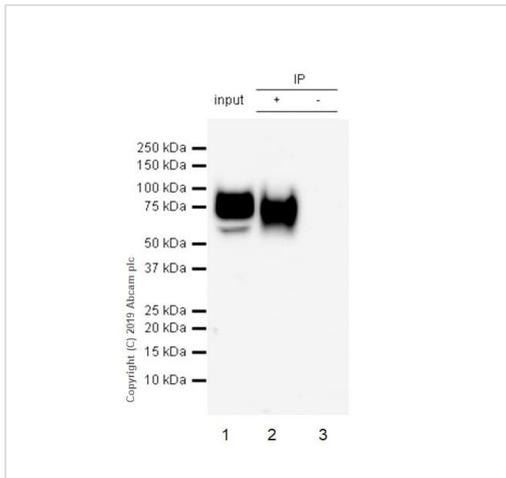
[why is the actual band size different from the predicted?](#)

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure times.

Lane 1: 48 seconds; Lane 2: 7.75 seconds; Lane 3: 37 seconds.

The molecular weight observed is consistent with what has been described in the literature (PMID:28459201,22266188).



Immunoprecipitation - Anti-Lumican antibody  
[EPR22511-63] (ab252925)

Lumican was immunoprecipitated from 0.35 mg of human skin tissue lysate with ab252925 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab252925 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used as secondary antibody at 1/5000 dilution.

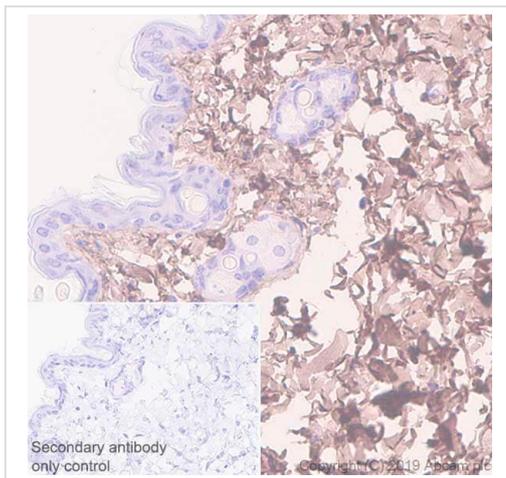
**Lane 1:** Human skin tissue lysate 10  $\mu$ g (Input).

**Lane 2:** ab252925 IP in human skin tissue lysate.

**Lane 3:** Rabbit monoclonal IgG (ab172730) instead of ab252925 in human skin tissue lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 15 seconds.



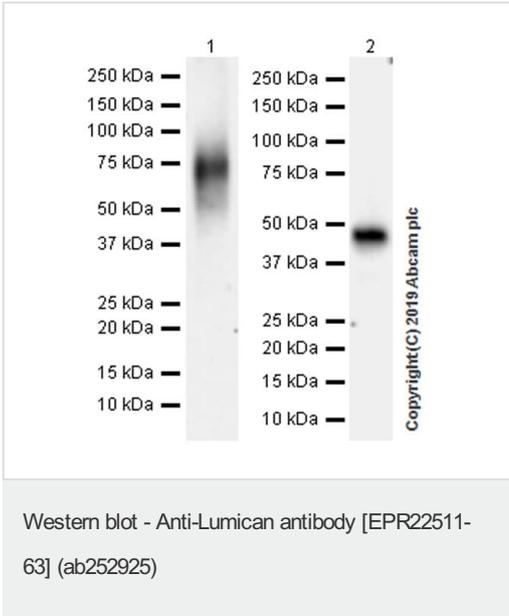
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody  
[EPR22511-63] (ab252925)

Immunohistochemical analysis of paraffin-embedded mouse skin tissue labeling Lumican with ab252925 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Positive staining in stroma cells of mouse skin (PMID:17089042) is observed.

Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).



**All lanes :** Anti-Lumican antibody [EPR22511-63] (ab252925) at 1/1000 dilution

**Lane 1 :** Human kidney tissue lysate

**Lane 2 :** Saos-2 (human osteosarcoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size:** 38 kDa

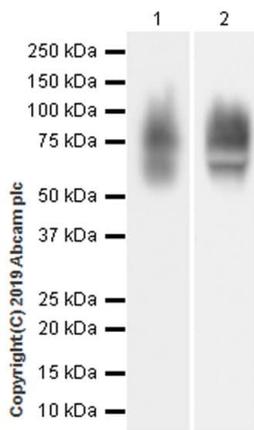
**Observed band size:** 50,70 kDa [why is the actual band size different from the predicted?](#)

**Exposure time:** 3 minutes

Blocking and dilution buffer: 5% NFDm/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID:28459201,22266188).

This blot was developed using a higher sensitivity ECL substrate.



Western blot - Anti-Lumican antibody [EPR22511-63] (ab252925)

**All lanes** : Anti-Lumican antibody [EPR22511-63] (ab252925) at 1/1000 dilution

**Lane 1** : Mouse skin tissue lysate

**Lane 2** : Rat skin tissue lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

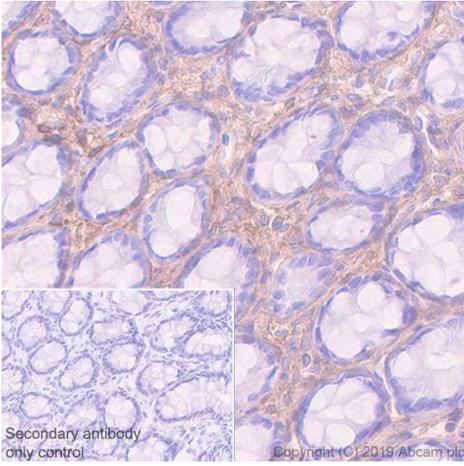
**Predicted band size:** 38 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times.

Lane 1: 15 seconds; Lane 2: 7.75 seconds.

The molecular weight observed is consistent with what has been described in the literature (PMID:22266188).

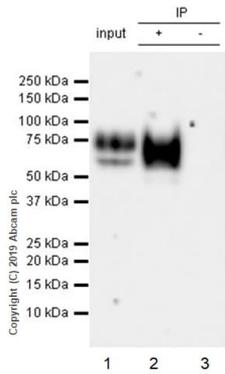


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody [EPR22511-63] (ab252925)

Immunohistochemical analysis of paraffin-embedded rat colon tissue labeling Lumican with ab252925 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Positive staining in stroma cells of rat colon (PMID:17089042; PMID:23399832) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

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Immunoprecipitation - Anti-Lumican antibody [EPR22511-63] (ab252925)

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**Lane 1:** Mouse skin tissue lysate 10 µg (Input).

**Lane 2:** ab252925 IP in mouse skin tissue lysate.

**Lane 3:** Rabbit monoclonal IgG (ab172730) instead of ab252925 in mouse skin tissue lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 30 seconds.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Lumican antibody [EPR22511-63] (ab252925)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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