

## Product datasheet

# Anti-Lumican antibody [EPR22511-63] - BSA and Azide free ab254995

Recombinant RabMAb

6 Images

### Overview

<b>Product name</b>	Anti-Lumican antibody [EPR22511-63] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR22511-63] to Lumican - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, IP, WB <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>	IP: Mouse skin lysate; human skin lysate. IHC-P: Human colon tissue; mouse skin tissue; rat colon tissue.
<b>General notes</b>	Ab254995 is the carrier-free version of <a href="#">ab252925</a> . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

ab254995 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

*Maxpar® is a trademark of Fluidigm Canada Inc.*

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work 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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22511-63
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab254995** in the following tested applications.

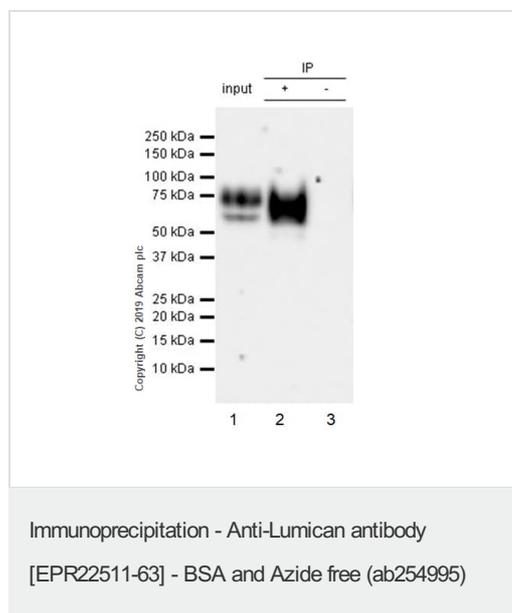
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.

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Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 40-73 kDa (predicted molecular weight: 38 kDa).
<b>Application notes</b>		Is unsuitable for Flow Cyt or ICC/IF.
<b>Target</b>		
<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.
<b>Post-translational modifications</b>		Sulfated on tyrosine residue(s).
<b>Cellular localization</b>		Secreted > extracellular space > extracellular matrix.

## Images



Lumican was immunoprecipitated from 0.35 mg of mouse 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:** Mouse skin tissue lysate 10 µg (Input).

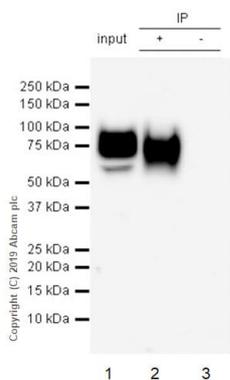
**Lane 2:** [ab252925](#) IP in mouse skin tissue lysate.

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

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 30 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab252925](#)).



Immunoprecipitation - Anti-Lumican antibody  
[EPR22511-63] - BSA and Azide free (ab254995)

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 µg (Input).

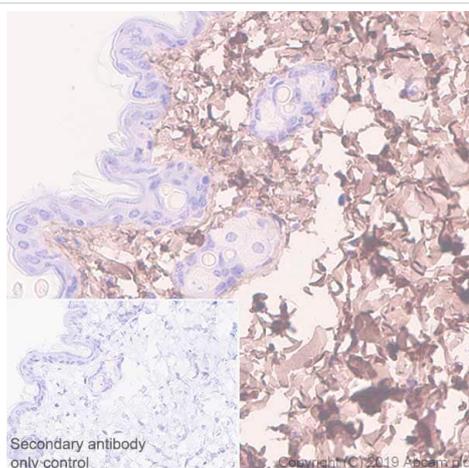
**Lane 2:** [ab252925](#) IP in human skin tissue lysate.

**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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab252925](#)).



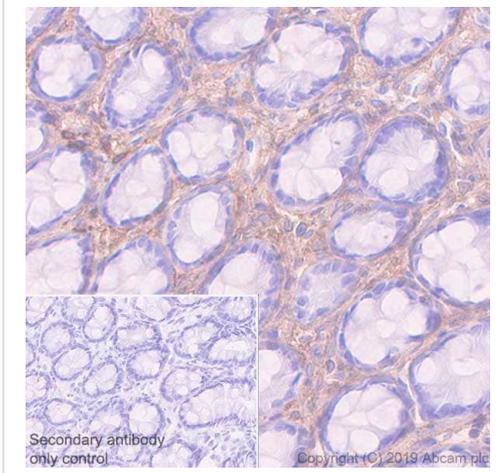
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody  
[EPR22511-63] - BSA and Azide free (ab254995)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab252925](#)).



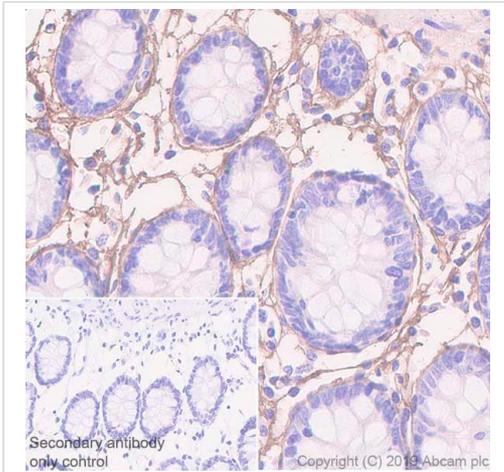
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody [EPR22511-63] - BSA and Azide free (ab254995)

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.

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab252925](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody [EPR22511-63] - BSA and Azide free (ab254995)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab252925](#)).

### 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] - BSA and Azide free (ab254995)

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

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- 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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