

## 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<br><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. This information is proprietary to Abcam and/or its suppliers.                      |
| <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> .  |

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

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.

This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> 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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

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

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab254995 in the following tested applications.

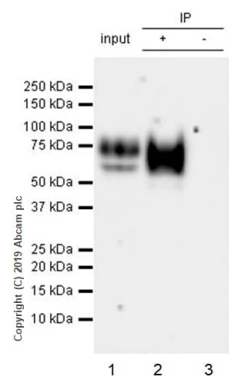
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| 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.  |
| WB          |           | Use at an assay dependent concentration. Detects a band of approximately 40-73 kDa (predicted molecular weight: 38 kDa).                                    |

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

## Target

|                                  |  |
|----------------------------------|--|
| Tissue specificity               | Cornea and other tissues.  |
| Sequence similarities            | Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class II subfamily.<br>Contains 11 LRR (leucine-rich) repeats.<br>Contains 1 LRRNT domain.  |
| Developmental stage              | 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.   |



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

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% NFDm/TBST.

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**).



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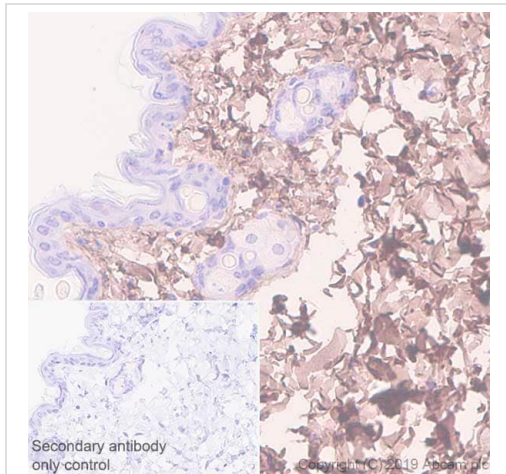
**Lane 2:** **ab252925** IP in human skin tissue lysate.

**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**).



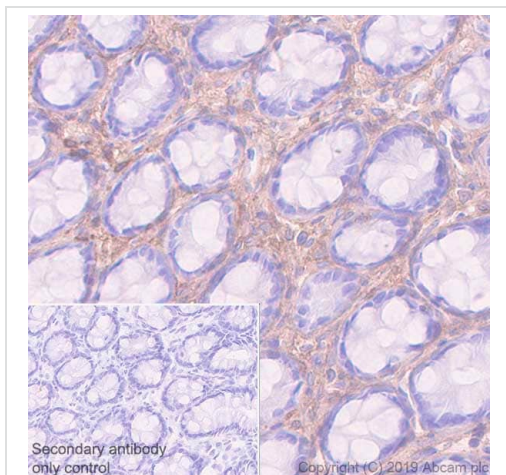
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody [EPR22511-63] - BSA and Azide free (ab254995)

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](#)).



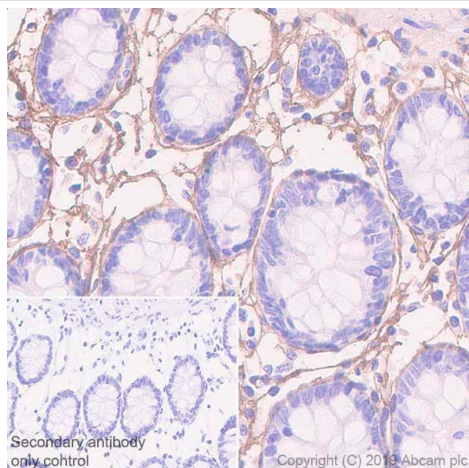
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody [EPR22511-63] - BSA and Azide free (ab254995)

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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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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