abcam

ab168348

Anti-Lumican antibody [EPR8898(2)]

Anti-Lumican antibody [EPR8898(2)] (ab168348) is a rabbit monoclonal antibody detecting Lumican in **Western Blot, Flow Cytometry (Intra), IHC-P, ICC/IF**. Suitable for **Human**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 30 publications

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR8898(2)
Purification technique	Affinity purification Protein A
Concentration	1.071 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human

Dilution info	1/50 - 1/100
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/5000
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human

Dilution info	1/250 - 1/500
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10350
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information LUM

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Lumican antibody [EPR8898(2)] (ab168348) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human samples.

What is the molecular weight of Lumican?
Anti-Lumican [EPR8898(2)] (ab168348) specifically detects a band for Lumican (UniProt: P51884) at a molecular weight of 38kDa.

Trusted by the scientific community
Anti-Lumican [EPR8898(2)] (ab168348) was first used in a scientific publication in 2013 and has been cited over 30 times in peer-reviewed journals.

Reviewed by scientists
Anti-Lumican [EPR8898(2)] (ab168348) has over 15 independent reviews from customers.

Other related products
We have a range of other formats of antibody clone [EPR8898(2)] also available for your convenience: ab168348, Carrier free - ab198974, HRP - ab201344, Biotin - ab201502, Alexa Fluor® 647 - ab252011, PE - ab252012, APC - ab319334, Alexa Fluor® 488 - ab319585, Alexa Fluor® 594 - ab319827, Alexa Fluor® 555 - ab319968, Alexa Fluor® 750 - ab321156

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

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

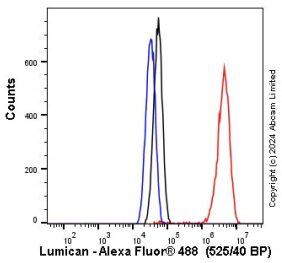
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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8 product images



Flow Cytometry (Intracellular) - Anti-Lumican antibody [EPR8898(2)] (ab168348)

Lumican Flow Cytometry (Intracellular) staining of HeLa cells using rabbit Anti-Lumican antibody

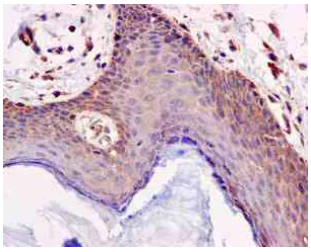
Flow cytometry overlay histogram showing HeLa cells stained with ab168348 (red line). The cells were fixed with 4% formaldehyde (10 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 mins. The cells were incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab168348) (1x 10^6 in 100µl at 0.2µg/ml (1/10,000 dilution)) for 30 mins at 22°C.

The secondary antibody Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/2000 dilution for 30 mins at 22°C

Isotype control antibody (black line) was Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.

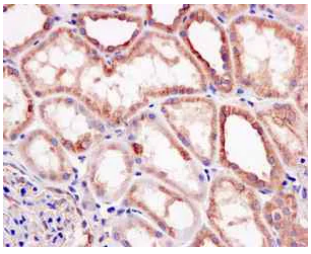
This antibody gave a positive signal in HeLa Fixed with 80% methanol (5 min) / permeabilised with 0.1% PBS-Triton X-100 for 15 mins under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody [EPR8898(2)] (ab168348)

Lumican Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Lumican antibody

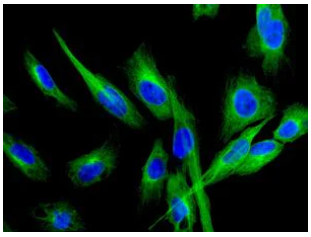
Immunohistochemical analysis of paraffin embedded Human skin tissue labeling Lumican with ab168348 at 1/50.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lumican antibody [EPR8898(2)] (ab168348)

Lumican Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Lumican antibody

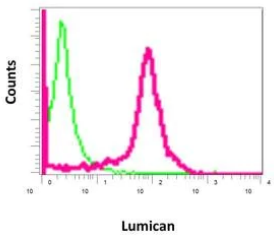
Immunohistochemical analysis of paraffin embedded Human kidney tissue labeling Lumican with ab168348 at 1/50.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Lumican antibody [EPR8898(2)] (ab168348)

Lumican Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Lumican antibody

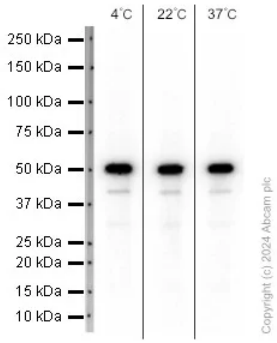
Immunofluorescent analysis of Saos-2 cells labeling Lumican with ab168348 at 1/250.



Flow Cytometry (Intracellular) - Anti-Lumican antibody [EPR8898(2)] (ab168348)

Lumican Flow Cytometry (Intracellular) staining using rabbit Anti-Lumican antibody

Intracellular flow cytometrical analysis of permeabilized 293T cells with ab168348 antibody at a dilution of 1/100 (red) or a rabbit IgG (negative) (green).



Western blot - Anti-Lumican antibody [EPR8898(2)] (ab168348)

Lumican Western blot staining of 293T Whole cell lysate using rabbit Anti-Lumican antibody

This blot was produced using 4-20% SDS-PAGE containing 15 µg of 293T whole cell lysate per lane at 150V for 1hr before being transferred onto a 0.45 µm PVDF membrane at 75V for 1hr. The membrane was then blocked for 1hr using 5% NFDM/TBST, then incubated with ab168348 (1/10,000) at room temperature for 1hr. After being washed three times in TBST, the membrane was incubated with Peroxidase conjugated goat anti-rabbit IgG (H+L) (ab97051) at 1/20,000 dilution for 1hr at room temperature. The membrane was washed three times again. Then the signal was developed using the ECL technique.

ab168348 was stored at a range of temperatures (+4°C, +22°C, +37°C) for 1 week before being tested in WB. The image shows the band intensity remains relatively constant across all storage temperatures, demonstrating that antibody activity is not affected under these conditions. This data was generated as part of a structured antibody stability study supporting Abcam’ s transition from cold⊠chain to ambient shipping.

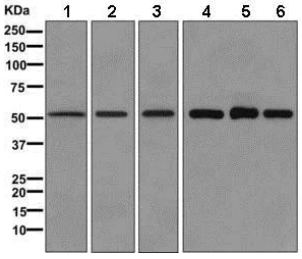
All lanes:
Western blot - Anti-Lumican antibody [EPR8898(2)] (ab168348) at 1/10000 dilution

All lanes:
293T Whole cell lysate at 15 µg with NDFM/TBST

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Exposure time: 10s



Western blot - Anti-Lumican antibody [EPR8898(2)] (ab168348)

All lanes:
Western blot - Anti-Lumican antibody [EPR8898(2)] (ab168348) at 1/1000 dilution

Lane 1:
Saos-2 lysate at 10 µg

Lane 2:
Fetal skin lysate at 10 µg

Lane 3:
Fetal heart lysate at 10 µg

Lane 4:
Jurkat lysate at 10 µg

Lane 5:
Y79 lysate at 10 µg

Lane 6:
293T lysate at 10 µg

Predicted band size: 38 kDa

Observed band size: 50 kDa

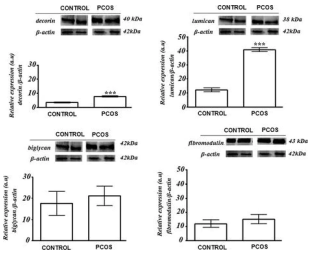


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Western blot - Anti-Lumican antibody [EPR8898(2)] (ab168348)

Lumican western blot using anti-Lumican antibody [EPR8898(2)] ab168348. Publication image and figure legend from Simões, R. S., Soares, J. M., et al., 2017, J Ovarian Res, PubMed 28789706.

ab168348 was used in this publication in western blot. This may not be the same as the application(s) guaranteed by Abcam. For a full list of applications guaranteed by Abcam for ab168348 please see the product overview.

Western blot results for decorin, lumican, biglycan, and fibromodulin expression in the endometrium of CONTROL and PCOS women

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