

For Research Use Only

Lumican Polyclonal antibody

Catalog Number: 10677-1-AP

4 Publications



Basic Information

Catalog Number:

10677-1-AP

Concentration:

450 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1106

GenBank Accession Number:

BC007038

GeneID (NCBI):

4060

UNIPROT ID:

P51884

Full Name:

lumican

Calculated MW:

38 kDa

Observed MW:

50-90 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IF-P, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, rat

Positive Controls:

WB : Jurkat cells,

IF-P : mouse spleen tissue,

Background Information

Lumican (LUM), a member of the small leucine-rich proteoglycan (SLRP) family, is one of the major extracellular components in interstitial collagenous matrices of the corneal stroma, aorta, skin, skeletal muscle, lung, kidney, bone, cartilage, and intervertebral discs. SLRPs constitute an important fraction of noncollagenous extracellular matrix proteins and have important effects on cell behavior. Lumican regulates collagenous matrix assembly as a keratan sulfate proteoglycan in the cornea and may exist as a glycoprotein in the connective tissues of other organs. Posttranslational modifications lumican goes through can increase its apparent molecular weight to 50-90 kDa. Studies show that lumican participates in the maintenance of tissue homeostasis and modulates cellular functions including cell proliferation, migration, and differentiation. (PMID: 18949819; 22252641; 9761754; 22365843)

Notable Publications

Author	Pubmed ID	Journal	Application
Huafeng Song	35300115	Front Mol Biosci	WB
He Wang	30556904	J Cell Physiol	WB
Mingshan Zhang	39865725	Adv Healthc Mater	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

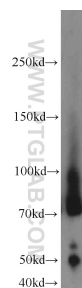
T: 4006900926

E: Proteintech-CN@ptglab.com

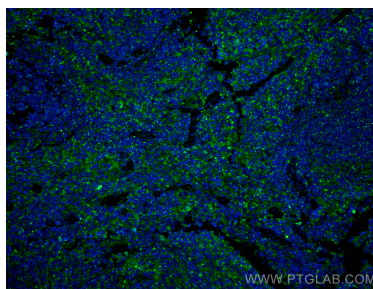
W: ptgcn.com

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Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 10677-1-AP (Lumican antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using Lumican antibody (10677-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).