Product datasheet Anti-Lumican/LUM Antibody Catalog Number: A01034-2



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

| Basic Inform | nation | |
|---------------------|--|--|
| Product Name | Anti-Lumican/LUM Antibody | |
| Gene Name | LUM | |
| Source | Rabbit | |
| Clonality | Polyclonal | |
| Isotype | IgG | |
| Species Reactivity | human, mouse, rat | |
| Tested Application | WB, IHC, FCM, ELISA | |
| Contents | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol. | |
| Immunogen | E.coli-derived human Lumican/LUM recombinant protein (Position: Q19-N338). | |
| Concentration | 500 ug/ml | |
| Purification | Immunogen affinity purified. | |
| Observed MW | 38-60 kDa | |
| Dilution Ratios | Western blot (WB): Immunohistochemistry (IHC): Flow Cytometry (Fixed): Enzyme linked immunosorbent assay (ELISA): (Boiling the paraffin sections in 10mM citrate buf mins is required for the staining of formalin/paraf must be determined by end user. | |

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Lumican, also known as LUM, is an extracellular matrix protein that, in humans, is encoded by the LUM gene on chromosome 12. This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family that includes decorin, biglycan, fibromodulin, keratocan, epiphycan, and osteoglycin. In these bifunctional molecules, the protein moiety binds collagen fibrils and the highly charged hydrophilic glycosaminoglycans regulate interfibrillar spacings. Lumican is the major keratan sulfate proteoglycan of the cornea but is also distributed in interstitial collagenous matrices throughout the body. Lumican may regulate collagen fibril organization and circumferential growth, corneal transparency, and epithelial cell migration and tissue repair.

Anti-Lumican/LUM Antibody

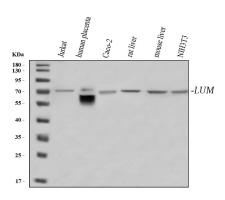
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Selected Validation Data



Western blot analysis of anti-Lumican/LUM antibody (A01034-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Jurkat whole cell lysates,

Lane 2: human placenta tissue lysates,

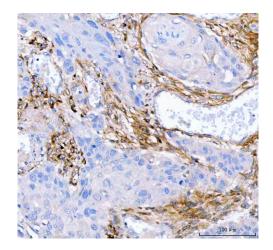
Lane 3: human Caco-2 whole cell lysates,

Lane 4: rat liver tissue lysates,

Lane 5: mouse liver tissue lysates,

Lane 6: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Lumican/LUM antigen affinity purified polyclonal antibody (A01034-2) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Lumican/LUM at approximately 70 kDa. The expected band size for Lumican/LUM is at 38 kDa.



IHC analysis of Lumican/LUM using anti-Lumican/LUM antibody (A01034-2).

Lumican/LUM was detected in a paraffin-embedded section of human esophageal squamous carcinoma tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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> 10⁴ FITC-A

Flow Cytometry analysis of SH-SY5Y cells using anti-Lumican/LUM antibody (A01034-2).

Overlay histogram showing SH-SY5Y cells stained with A01034-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Lumican/LUM Antibody (A01034-2, 1:100). DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (Catalog # BA1045) (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.