

## Datasheet for ABIN6720300 **LUM ELISA Kit**



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### Overview

Quantity:	1 kit
Target:	LUM
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: Keratan sulfate proteoglycan lumican, KSPG Lumican, LDC, LUM, LUM_HUMAN, Lumican, Lumican precursor, SLRR2D</p> <p>Background: Lumican, also known as LUM, is a protein which in humans is encoded by the LUM gene. This gene is a member of the small interstitial proteoglycan gene(SIPG) family, and it is a keratan sulfate proteoglycan which presents large quantities in the corneal stroma and in interstitial collagenous matrices of the heart, aorta, skeletal muscle, skin, and intervertebral discs. Lumican is mapped to 12q21.33, it interacts with collagen and limits growth of fibrils in diameter. In the cornea, Lumican not only interacts with collagen molecules to limit fibril</p>

## Product Details

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growth, but also plays a critical role in the regular spacing of fibrils and acquisition of corneal transparency by virtue of its keratan sulfate-containing glycosaminoglycan side chains LDC.

Gene Name: LUM

Production: Natural and recombinant human Lumican. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: Q19-N338

## Target Details

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Target: LUM

Alternative Name: Lumican ([LUM Products](#))

Gene ID: 4060

NCBI Accession: [NP\\_002336](#)

UniProt: [P51884](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

## Application Details

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Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human Lumican standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin) to each empty well. It is recommended that each human Lumican standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 156pg/mL-10,000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

## Handling

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Storage: RT,4 °C,-20 °C

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## Handling

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Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.