

Human Lumican ELISA Kit | LUM elisa kit

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CATALOG # AAA105816	REACTIVITY Human	APPLICATIONS ELISA
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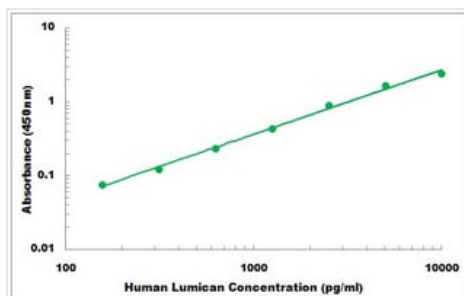
PRODUCT SYNONYMS

Lumican; Human Lumican ELISA Kit; LDC; SLRR2D; Keratan sulfate proteoglycan lumican; KSPG lumican; LUM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Lumican ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Lumican proteins within the range of 156 pg/ml - 10000 pg/ml.
Sequence Length	338
Samples	Cell Culture Supernatants, Serum, Plasma
Sensitivity	The minimum detectable dose of Human Lumican is typically less than 10 pg/ml.
Applicable Applications for LUM elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LUM elisa kit	Principle of the assay: The Human Lumican ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Lumican in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Human Lumican coated on a 96-well plate. Standards and samples are pipetted into the wells and Lumican present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Lumican antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Lumican bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. 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 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505047
NCBI GeneID	4060
NCBI Accession #	NP_002336.1
NCBI GenBank Nucleotide #	NM_002345.3
UniProt Accession #	P51884; Q96QM7; B2R6R5
Molecular Weight	38,429 Da
NCBI Official Full Name	lumican
NCBI Official Synonym Full Names	lumican
NCBI Official Symbol	LUM
NCBI Official Synonym Symbols	LDC; SLRR2D
NCBI Protein Information	lumican; KSPG lumican; lumican proteoglycan; keratan sulfate proteoglycan lumican
UniProt Protein Name	Lumican
UniProt Gene Name	LUM
UniProt Synonym Gene Names	LDC; SLRR2D; KSPG lumican
UniProt Entry Name	LUM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/lum-human-elisa-kits/lumican/105816>