

Human Lumican ELISA Kit | LUM elisa kit

Human Lumican PicoKine ELISA Kit

CATALOG #
AAA11630

REACTIVITY
Human

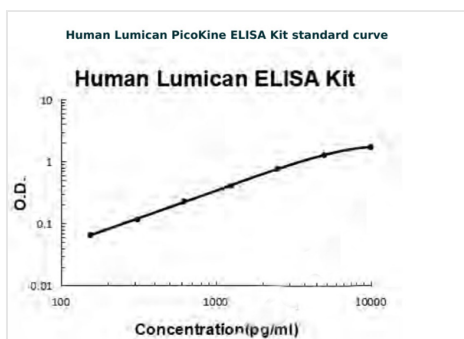
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human LUM
Sequence Length	338
Samples	Cell culture supernatants, serum and plasma (heparin)
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LUM elisa kit	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. Principle of the Assay: The MBS Picokine™ Human LUM Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human LUM with a 96-well strip plate that is pre-coated with antibody specific for LUM. The detection antibody is a biotinylated antibody specific for LUM. The capture antibody is polyclonal antibody from goat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human LUM with immunogen: Expression system for standard: NS0; Immunogen sequence: Q19-N338. The kit is analytically validated with ready-to-use reagents. To measure Human LUM, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human LUM in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human LUM in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20141464
NCBI GeneID	4060
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/11630>