

**Datasheet for KOA0733****Human Lumican ELISA Kit****Overview**

<b>Description:</b>	Human Lumican AccuSignal ELISA Kit - KOA0733
<b>Item No.:</b>	KOA0733
<b>Size:</b>	1 Kit
<b>Applications:</b>	ELISA
<b>Reactivity:</b>	Human
<b>Range:</b>	156 pg/ml - 10,000 pg/ml

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	Keratan sulfate proteoglycan lumican, KSPG Lumican, LDC, LUM, LUM_HUMAN, Lumican, Lumican precursor, SLRR2D
<b>Detection Kit Type:</b>	ELISA Kit
<b>Detection Range:</b>	156 pg/ml - 10,000 pg/ml
<b>Sensitivity:</b>	<10 pg/ml

**Target Details**

<b>Gene Name:</b>	LUM
<b>Reactivity:</b>	Human
<b>Immunogen:</b>	Expression system for standard: NSO; Immunogen sequence: Q19-N338
<b>Purity/Specificity:</b>	Natural and recombinant human Lumican. There is no detectable cross-reactivity with other relevant proteins.

<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P51884</a></li><li>• <a href="#">NCBI - NP_002336.1</a></li><li>• <a href="#">GeneID - 4060</a></li><li>• <a href="#">KOA0733 Protocol</a></li></ul>
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## Application Details

<b>Tested Applications:</b>	ELISA
<b>Application Note:</b>	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

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## Formulation

<b>Anticoagulant:</b>	Heparin Sodium
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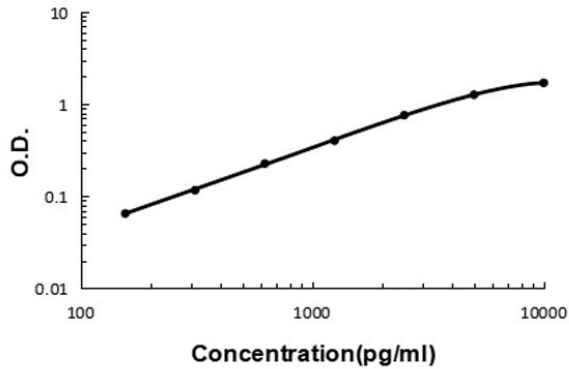
## Shipping & Handling

<b>Shipping Condition:</b>	Wet Ice
<b>Storage Condition:</b>	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.
<b>Expiration:</b>	See kit insert for complete instructions.

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## Images

### Human Lumican ELISA Kit



### ELISA

Human Lumican ELISA Kit standard curve.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.