

Datasheet for KOA0602**Human Chitinase 3-like 1 - YKL-40 ELISA Kit****Overview**

Description:	Human Chitinase 3-like 1/YKL-40 AccuSignal ELISA Kit - KOA0602
Item No.:	KOA0602
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

Background:	Chitinase-3-like protein 1, also called CHI3L1 or YKL-40 is a secreted glycoprotein that is approximately 40kDa in size that in humans is encoded by the CHI3L1 gene. This gene is mapped to 1q32.1. Chitinases catalyze the hydrolysis of chitin, which is an abundant glycopolymer found in insect exoskeletons and fungal cell walls. The glycoside hydrolase 18 family of chitinases includes eight human family members. This gene encodes a glycoprotein member of the glycosyl hydrolase 18 family. The protein lacks chitinase activity and is secreted by activated macrophages, chondrocytes, neutrophils and synovial cells. The protein is thought to play a role in the process of inflammation and tissue remodeling.
Synonyms:	39 kDa synovial protein, ASRT7, Cartilage glycoprotein 39, CGP-39, CGP39, CHI3L1_HUMAN, CHI3L1, chitinase 3 like 1 (cartilage glycoprotein 39), chitinase 3 like 1, Chitinase 3 like protein 1 precursor, chitinase, Chitinase-3-like protein 1, GP 39, GP-39, GP39, HC gp39, HCGP 3P, hCGP-39, HCgp39, YKL 40, YKL-40, YKL40, YYL 40
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	CHI3L1
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: Y22-T383

Purity/Specificity: Natural and recombinant human Chitinase 3-like 1. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P36222](#)
- [NCBI - NP_001267.2](#)
- [GeneID - 1116](#)
- [KOA0602 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human Chitinase 3-like 1 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, plasma(heparin, EDTA) or urine to each empty well. We recommend that each human Chitinase 3-like 1 standard solution and each sample is measured in duplicate.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 62.5pg/ml-4000pg/ml

Other: DOE:
2-8° C - 11/10/2023
-20° C - 05/10/2024

Formulation

Concentration: 1 Kit

Anticoagulant: Heparin Sodium

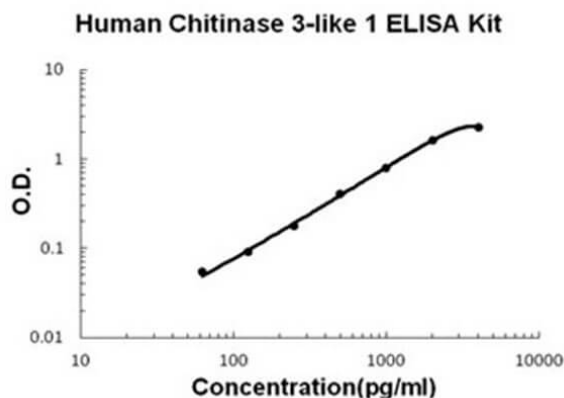
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: 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.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human Chitinase 3-like 1/YKL-40 AccuSignal ELISA Kit standard curve. Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <10pg/ml.

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.