

Datasheet for ABIN6720219

Chitinase 3-Like 1/YKL-40 ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	1 kit
Target:	Chitinase 3-Like 1/YKL-40
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Human Chitinase 3-like 1 - YKL-40 Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant human Chitinase 3-like 1. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	<ul style="list-style-type: none">• Antibody-coated 96-well plate• Target Protein Standard• Detection antibody

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target: Chitinase 3-Like 1/YKL-40

Background: Synonyms: 39 kDa synovial protein, ASRT7, Cartilage glycoprotein 39, CGP-39, CGP39, CH3L1_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

Background: Chitinase-3-like protein 1, also called CHI3L1 or YKL-40 is a secreted glycoprotein that is approximately 40 kDa 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.

Gene ID: 1116

NCBI Accession: [NP_001267](#)

UniProt: [P36222](#)

Application Details

Application Notes: ELISA_Dilution: 62.5pg/mL-4000pg/mL

Application_Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL 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 0.1 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, 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.

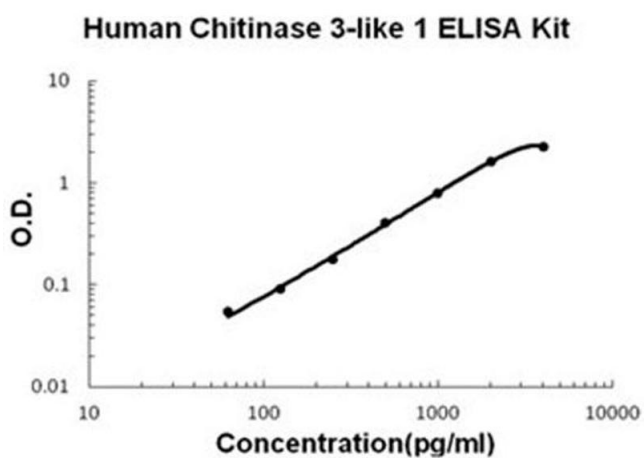
Application Details

Comment:	Standard: Expression system for standard: NSO, Immunogen sequence: Y22-T383
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C,-20 °C
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.
Expiry Date:	12 months

Images



ELISA

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