

Datasheet for ABIN6720246
Chitinase 3-Like 1/YKL-40 ELISA Kit



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1 Image

Overview

Quantity:	1 kit
Target:	Chitinase 3-Like 1/YKL-40
Reactivity:	Mouse
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:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>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</p> <p>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</p>

Product Details

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 Name: CHI3L1

Production: Natural and recombinant mouse Chitinase 3-like 1. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: Y22-A381

Target Details

Target: Chitinase 3-Like 1/YKL-40

Alternative Name: Chitinase 3-like 1 - YKL-40

Gene ID: 12654

NCBI Accession: [NP_031721](#)

UniProt: [Q61362](#)

Application Details

Application Notes: 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 mouse 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each mouse Chitinase 3-like 1 standard solution and each sample is measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 62.5pg/mL-4000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

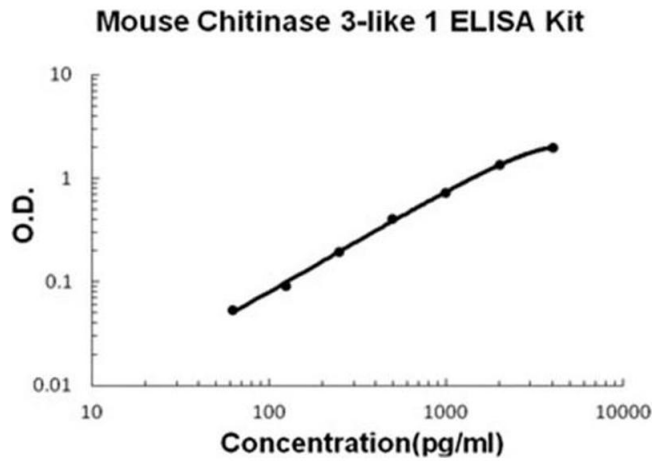
Handling

Storage: RT,4 °C,-20 °C

Handling

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.

Images



ELISA

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