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Datasheet for ABIN7535291  
**CHI3L1 Protein (His tag)**

### Overview

Quantity:	100 µg
Target:	CHI3L1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHI3L1 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human YKL-40/CHI3L1 Protein
Sequence:	YKLVCYYTSW SQYREGDGSC FPDALDRFLC THIIYSFANI SNDHIDTWEW NDVTLYGMLN TLKNRNPNLK TLLSVGGWNF GSQRFSKIAS NTQSRRTFIK SVPPFLRTHG FDGLDLAWLY PGRRDQKHFT TLIKEMKAEF IKEAQPGKKQ LLLSAALSAG KVTIDSSYDI AKISQHLDFI SIMTYDFHGA WRGTTGHHSP LFRGQEDASP DRFSNTDYAV GYMLRLGAPA SKLVMGIPTF GRSFTLASSE TGVGAPISGP GIPGRFTKEA GTLAYYEICD FLRGATVHRI LGQQVPYATK GNQWVGYYDDQ ESKVSKVQYL KDRQLAGAMV WALDLDDFQG SFCGQDLRFP LTNAIKDALA AT
Specificity:	Tyr22-Thr383
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

## Target Details

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Target: CHI3L1

Alternative Name: YKL-40/CHI3L1 ([CHI3L1 Products](#))

Background: Description: Chitinase-3-like protein 1 (CHI3L1) is a secreted heparin-binding glycoprotein whose expression is associated with vascular smooth muscle cell migration. CHI3L1 is expressed at high levels in postconfluent nodular VSMC cultures and at low levels in subconfluent proliferating cultures. CHI3L1 is a tissue-restricted, chitin-binding lectin and member of glycosyl hydrolase family 18. In contrast to many other monocyto / macrophage markers, its expression is absent in monocytes and strong induced during late stages of human macrophage differentiation. Elevated levels of CHI3L1 are associated with disorders exhibiting increased connective tissue turnover, such as rheum atoid, arthritis, osteoarthritis, scleroderma, and cirrhosis of liver, but is produced in cartilage from old donors or patients with osteoarthritis. CHI3L1 is abnormally expressed in the hippocampus of subjects with schizophrenia and may be involved in the cellular response to various environmental events that are reported to increase the risk of schizophrenia.

Name: CHI3L1,ASRT7,CGP-39,GP-39,GP39,HC-gp39,HCGP-3P,YKL-40,YKL40,YYL-40,hCGP-39

Gene ID: 1116

UniProt: [P36222](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C,-80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for long term.|After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.