

Human Chitinase 3-like 1/YKL-40 ELISA Kit | CHI3L1 elisa kit

Human Chitinase 3-like 1/YKL-40 PicoKine ELISA Kit

CATALOG #
AAA45849

REACTIVITY
Human

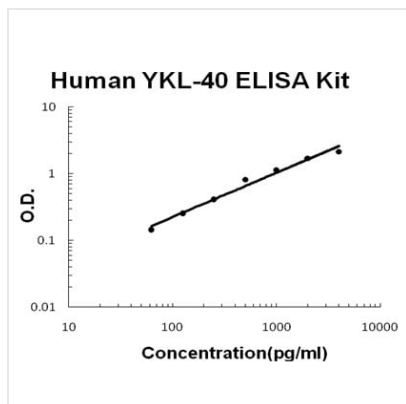
PRODUCT SYNONYMS

Chitinase 3-like 1/YKL-40; Human Chitinase 3-like 1/YKL-40 PicoKine ELISA Kit; Chitinase-3-like protein 1; chitinase 3-like 1 (cartilage glycoprotein-39); 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; GP 39; GP-39; GP39; HC gp39; HCGP 3P; hCGP-39; HCgp39; YKL 40; YKL-40; YKL40; YYL 40; CHI3L1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human Chitinase 3-like 1/YKL-40
Sequence Length	383
Samples	Serum, plasma(heparin, EDTA) and urine
Assay Type	Quantitative Sandwich
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human Chitinase 3-like 1/YKL-40 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CHI3L1 elisa kit	Principle of the Assay: Human Chitinase 3-like 1/YKL-40 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Chitinase 3-like 1/YKL-40 has been precoated onto 96-well plates. Standards(Expression system for standard: NSO; Immunogen sequence: Y22-T383) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Chitinase 3-like 1/YKL-40 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human Chitinase 3-like 1/YKL-40 amount of sample captured in plate. Background/Introduction: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	84028186
NCBI GeneID	1116
UniProt Accession #	P36222; P30923; Q8IVA4; Q96HI7; B2R7B0
Molecular Weight	42,625 Da
NCBI Official Full Name	Chitinase-3-like protein 1
NCBI Official Synonym Full Names	chitinase 3-like 1 (cartilage glycoprotein-39)
NCBI Official Symbol	CHI3L1
NCBI Official Synonym Symbols	GP39; ASRT7; GP-39; YKL40; CGP-39; YKL-40; YYL-40; HC-gp39; HCGP-3P; hCGP-39
NCBI Protein Information	chitinase-3-like protein 1; 39 kDa synovial protein; cartilage glycoprotein 39
UniProt Protein Name	Chitinase-3-like protein 1
UniProt Gene Name	CHI3L1
UniProt Synonym Gene Names	CGP-39; GP-39; hCGP-39
UniProt Entry Name	CH3L1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.