

Mouse Chitinase-3-like Protein 1 (CHI3L1) ELISA Kit | CHI3L1 elisa kit

Mouse Chitinase-3-like Protein 1 (CHI3L1) Mini Samples ELISA Kit

CATALOG #
AAA161640

REACTIVITY
Mouse

PRODUCT SYNONYMS

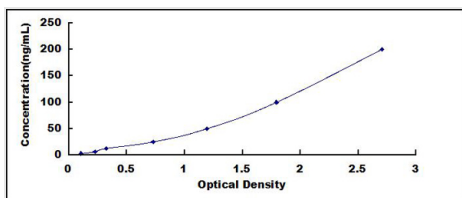
Chitinase-3-like Protein 1 (CHI3L1); Mouse Chitinase-3-like Protein 1 (CHI3L1) Mini Samples ELISA Kit; CHI3L1 Mini-sample ELISA kit (Mouse); GP39; CHI3-L1; YKL40; Chondrex; Chitinase 3-Like 1; Chondrocyte Protein YKL40; 39 kDa synovial protein; CHI3L1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples Chitinase-3-like Protein 1 (CHI3L1). No significant cross-reactivity or interference between Mini Samples Chitinase-3-like Protein 1 (CHI3L1) and analogues was observed. Reactive with Mouse CHI3L1/Chitinase-3-like Protein 1
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates and other biological fluids
Detection Method	Colormetric
Featured Series	ME kit
Detection Range	3.12-200ng/mL
Sensitivity	1.09ng/mL
Sample Size	15-25uL
Assay Time	3h
Function	Detects protein (micro-volume samples 15-25 ul)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Chitinase-3-like Protein 1 (CHI3L1) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Chitinase-3-like Protein 1 (CHI3L1) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mini Samples Chitinase-3-like Protein 1 (CHI3L1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples Chitinase-3-like Protein 1 (CHI3L1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Mini Samples Chitinase-3-like Protein 1 (CHI3L1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Mini Samples Chitinase-3-like Protein 1 (CHI3L1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Metabolic pathway, Infection immunity, Bone metabolism, Rheumatology
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

Typical Standard Curve for CHI3L1 ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	635377452
NCBI GeneID	12654
UniProt Accession #	Q61362; Q3U291; Q4FJW9; Q8BKL8; Q99J84; B0FEU7; D3Z2P2
Molecular Weight	42,805 Da
NCBI Official Full Name	Chitinase-3-like protein 1
NCBI Official Synonym Full Names	chitinase-like 1
NCBI Official Symbol	Chil1
NCBI Official Synonym Symbols	Gp39; Brp39; Chi3l1; AW208766
NCBI Protein Information	chitinase-3-like protein 1; GP-39; CGP-39; chitinase 3-like 1; cartilage glycoprotein 39; breast regression protein 39
UniProt Protein Name	Chitinase-3-like protein 1
UniProt Gene Name	Chi3l1
UniProt Synonym Gene Names	Brp39; Chil1; CGP-39; GP-39
UniProt Entry Name	CH3L1_MOUSE

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.