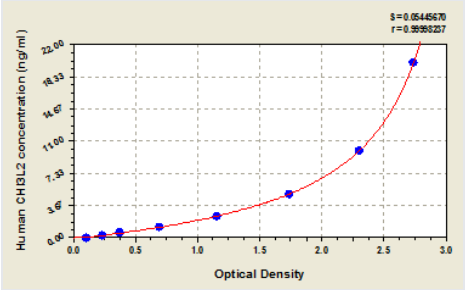
Chitinase 3-Like 2 (CHI3L2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	chitinase 3-like 2 (CHI3L2), ELISA Kit
Full Product Name	Human Chitinase-3-like protein 2, CHI3L2 ELISA Kit
Product Gene Name	CHI3L2 elisa kit
Product Synonym Names	Human Chitinase-3-like protein 2 (CHI3L2) ELISA kit; YKL-39; YKL39; chondrocyte protein 39; chitinase 3-like 2
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates
Detection Range	0.78 ng/ml-50 ng/ml
Sensitivity	< 0.195 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human CHI3L2. No significant cross-reactivity or interference between human CHI3L2 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	43,501 Da
OMIM	601526
3D Structure	ModBase 3D Structure for Q15782
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CHI3L2 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for CHI3L2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CHI3L2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CHI3L2 is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CHI3L2 bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of CHI3L2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CHI3L2 purchase	MBS913750 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the chitinase 3-like 2 (CHI3L2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CHI3L2. The ELISA analytical biochemical technique of the MBS913750 kit is based on CHI3L2 antibody-CHI3L2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CHI3L2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CHI3L2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CHI3L2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHI3L2. It may not necessarily be applicable to this product.

NCBI GI #	68533253
NCBI GeneID	1117
NCBI Accession #	NP_001020368.1
UniProt Primary Accession #	Q15782
UniProt Secondary Accession #	Q15749; Q15783; Q5VUV7; Q96F97; A6NNY3; B4DPR7
UniProt Related Accession #	Q15782
GenBank Nucleotide #	NM_001025197.1
NCBI Official Full Name	chitinase-3-like protein 2 isoform b
NCBI Official Synonym Full Names	chitinase 3-like 2
NCBI Official Symbol	CHI3L2
NCBI Official Synonym Symbols	CHIL2; YKL39; YKL-39
UniProt Protein Name	Chitinase-3-like protein 2
UniProt Synonym Protein Names	Chondrocyte protein 39; YKL-39
Protein Family	Chitinase-3-like protein
UniProt Gene Name	CHI3L2
UniProt Entry Name	CH3L2_HUMAN
NCBI Protein Information	chitinase-3-like protein 2; chondrocyte protein 39
NCBI Summary for CHI3L2	The protein encoded by this gene is similar to bacterial chitinases but lacks chitinase activity. The encoded protein is secreted and is involved in cartilage biogenesis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]
UniProt Comments for CHI3L2	CHI3L2: Lectin that binds chitooligosaccharides and other glycans with high affinity, but not heparin. Has no chitinase activity. Belongs to the glycosyl hydrolase 18 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: extracellular space Molecular Function: chitin binding; chitinase activity; carbohydrate binding Biological Process: carbohydrate metabolic process; immune response; chitin catabolic process

Research Articles on CHI3L2	**1.** These data suggest that hYKL-39 is a novel growth and differentiation factor involved in cartilage homeostasis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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