

Human Collagen Type II Alpha 1 (COL2a1) ELISA Kit | COL2a1 elisa kit

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CATALOG #
AAA135780

REACTIVITY
Human

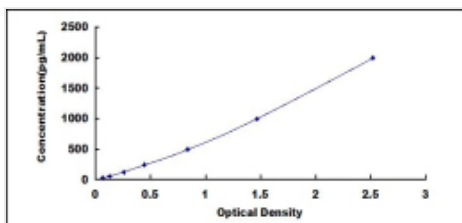
PRODUCT SYNONYMS

Collagen Type II Alpha 1 (COL2a1); Human Collagen Type II Alpha 1 (COL2a1) ELISA Kit; COL2-A1; COL2A1; SEDC; Chondrocalcin; Collagen Alpha-1(II)Chain; Primary Osteoarthritis; Spondyloepiphyseal Dysplasia; Congenital; COL2a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Collagen Type II Alpha 1 (COL2a1). No significant cross-reactivity or interference between Collagen Type II Alpha 1 (COL2a1) and analogues was observed.
Sequence Length	1160
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma and other biological fluids
Detection Range	31.2-2,000pg/mL
Sensitivity	13.5pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Collagen Type II Alpha 1 (COL2a1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Collagen Type II Alpha 1 (COL2a1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	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)

ADDITIONAL INFORMATION

Related Product Information for COL2a1 elisa kit	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 Collagen Type II Alpha 1 (COL2a1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Collagen Type II Alpha 1 (COL2a1). 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 Collagen Type II Alpha 1 (COL2a1), 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 Collagen Type II Alpha 1 (COL2a1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for COL2a1 elisa kit	Metabolic pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	30041
NCBI GeneID	1280
UniProt Accession #	P02458; Q12985; Q14009; Q14044; Q14045; Q14046; Q14047; Q14056; Q14058; Q16672; Q1JQ82; A6NGA0
Molecular Weight	29,781 Da
NCBI Official Full Name	COL2A1, partial
NCBI Official Synonym Full Names	collagen, type II, alpha 1
NCBI Official Symbol	COL2A1
NCBI Official Synonym Symbols	AOM; ANFH; SEDC; STL1; COL11A3
NCBI Protein Information	collagen alpha-1(II) chain
UniProt Protein Name	Collagen alpha-1(II) chain
UniProt Gene Name	COL2A1
UniProt Entry Name	CO2A1_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.