

Human Collagen alpha-1(II) chain ELISA Kit | COL2A1 elisa kit

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CATALOG #
AAA101742

REACTIVITY
Human

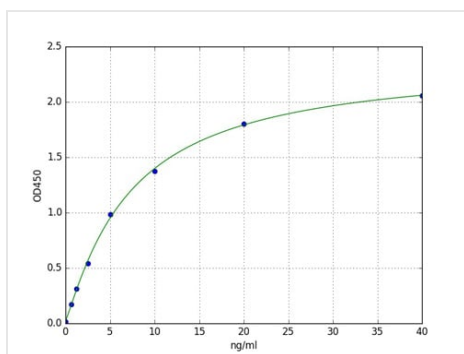
PRODUCT SYNONYMS

Collagen alpha-1(II) chain; Human Collagen alpha-1(II) chain ELISA Kit; COL2alpha1/COL2A1/ANFH/AOM/COL11A3/SEDC/Chondrocalcin/Alpha-1 type II collagen/cartilage collagen/Collagen 2/collagen alpha-1 (II) chain/collagen II; alpha-1 polypeptide/collagen type 2/Collagen-2; COL2A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Sequence Length	1160
Assay Type	Sandwich ELISA, Double Antibody
Samples	cell or tissue lysate, Other liquid samples
Detection Range	0.625-40ng/ml
Sensitivity	0.375ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

Typical Data & Standard Curve

Results of a typical standard run of a Human COL2 α 1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

X	ng/ml	0	0.625	1.25	2.5	5	10	20	40
Y	OD450	0.045	0.115	0.202	0.332	0.568	1.101	1.358	1.969

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL2A1 elisa kit

Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human COL2alpha1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human COL2alpha1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 COL2alpha1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human COL2alpha1 can be calculated.

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.

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Online datasheet: <https://www.aaabiotech.com/col2a1-human-elisa-kits/collagen-alpha-1-ii-chain/101742>