

Human Collagen Type I Alpha 2 (COL1a2) RTU ELISA Kit | COL1a2 rtu elisa kit

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CATALOG #
AAA69868

REACTIVITY
Human

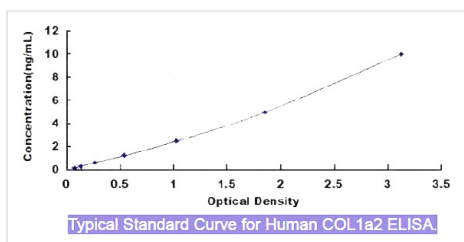
PRODUCT SYNONYMS

Collagen Type I Alpha 2 (COL1a2); Human Collagen Type I Alpha 2 (COL1a2) ELISA Kit; COL1-A2; OI4; Collagen Alpha-2(I)chain; osteogenesis imperfecta type IV; Collagen Of Skin; Tendon And bone; Alpha-2 Chain; COL1a2 rtu elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of COL1a2. No significant cross-reactivity or interference between COL1a2 and analogues was observed.
Sequence Length	1366
Samples	Serum, plasma, tissue homogenates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	< 0.046ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL1a2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level COL1a2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL1a2 rtu elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of COL1a2 in human serum, plasma, tissue homogenates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to COL1a2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to COL1a2. 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 COL1a2, 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 COL1a2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	48762934
NCBI GeneID	1278
NCBI Accession #	NP_000080.2
NCBI GenBank Nucleotide #	NM_000089.3
UniProt Accession #	P08123; P02464; Q13897; Q13997; Q13998; Q14038; Q14057; Q15177; Q15947; Q16480; Q16511; Q7Z5S6
Molecular Weight	129,314 Da
NCBI Official Full Name	collagen alpha-2(I) chain
NCBI Official Synonym Full Names	collagen type I alpha 2 chain
NCBI Official Symbol	COL1A2
NCBI Official Synonym Symbols	OI4; EDSCV; EDSARTH2
NCBI Protein Information	collagen alpha-2(I) chain
UniProt Protein Name	Collagen alpha-2(I) chain
UniProt Gene Name	COL1A2

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.