

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

Human Collagen Type II Alpha 1 ELISA Kit

CATALOG #  
**AAA85583**

REACTIVITY  
**Human**

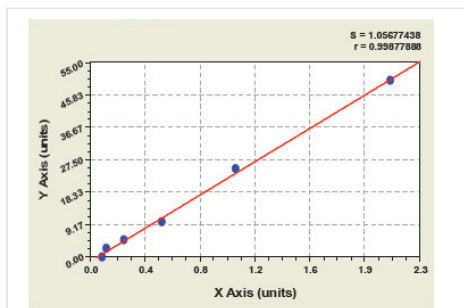
### PRODUCT SYNONYMS

Collagen Type II Alpha 1; Human Collagen Type II Alpha 1 ELISA Kit; COL2a1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                      |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                                 |
| Assay Type              | Competitive or Sandwich                                                                                                                                                                    |
| Detection Range         | 2.5-50ng/mL                                                                                                                                                                                |
| Sensitivity             | 0.1ng/mL                                                                                                                                                                                   |
| Intended Uses           | This COL2A1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human COL2A1. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                        |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for COL2a1 elisa kit

**Principle of the Assay:** COL2A1 ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for COL2A1. Standards or samples are then added to the microtiter plate wells and COL2A1 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of COL2A1 present in the sample, a standardized preparation of horseradish peroxidase (HRP) -conjugated polyclonal antibody, specific for COL2A1 are added to each well to "sandwich" the COL2A1 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain COL2A1 and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL2A1 concentration in each sample is interpolated from this standard curve.

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; collagen alpha-1(II) chain; chondrocalcin; cartilage collagen; alpha-1 type II collagen; collagen II, alpha-1 polypeptide; arthroophthalmopathy, progressive (Stickler syndrome) |
| 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.