

## Rat Collagen Type II Alpha 1 (COL2a1) RTU ELISA Kit | COL2a1 rtu elisa kit

Rat Collagen Type II Alpha 1 (COL2a1) ELISA Kit

CATALOG #  
**AAA69873**

REACTIVITY  
**Rat**

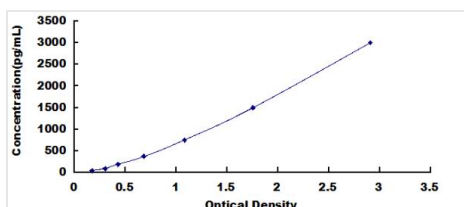
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                           |                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                | Rat                                                                                                                                                                                                                                                                                                                                                 |
| Sequence Length           | 1419                                                                                                                                                                                                                                                                                                                                                |
| Assay Type                | Sandwich                                                                                                                                                                                                                                                                                                                                            |
| Samples                   | Serum, Plasma or Other Biological Fluids.                                                                                                                                                                                                                                                                                                           |
| Detection Range           | 46.8-3000pg/mL                                                                                                                                                                                                                                                                                                                                      |
| Sensitivity               | 18.25pg/mL                                                                                                                                                                                                                                                                                                                                          |
| RTU ELISA Kit's Advantage | The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.                                                                                                                                                            |
| Preparation and Storage   | For unopened kits: All the reagents should be kept at 4 degree C upon receipt.<br>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 COL2a1 rtu elisa kit

**Test Principle:** The microtiter plate provided in this kit has been pre-coated with an antibody specific to COL2a1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to 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 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  $\pm$  10nm. The concentration of COL2a1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

|                                  |                                |
|----------------------------------|--------------------------------|
| NCBI GI #                        | 6978677                        |
| NCBI GeneID                      | 25412                          |
| NCBI Accession #                 | NP_037061.1                    |
| NCBI GenBank Nucleotide #        | NM_012929.1                    |
| UniProt Accession #              | P05539; Q63123; Q63565; Q78DY3 |
| Molecular Weight                 | 134,570 Da                     |
| NCBI Official Full Name          | collagen alpha-1(II) chain     |
| NCBI Official Synonym Full Names | collagen type II alpha 1 chain |
| NCBI Official Symbol             | Col2a1                         |
| NCBI Official Synonym Symbols    | CG2A1A; COLLII                 |
| NCBI Protein Information         | collagen alpha-1(II) chain     |
| UniProt Protein Name             | Collagen alpha-1(II) chain     |
| UniProt Gene Name                | Col2a1                         |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/rat-rtu-elisa-kits/collagen-type-ii-alpha-1-col2a1/69873>