

## Rat Collagen Type II ELISA Kit | COL2 elisa kit

Rat Collagen Type II ELISA Kit

CATALOG #  
AAA100887

REACTIVITY  
Rat

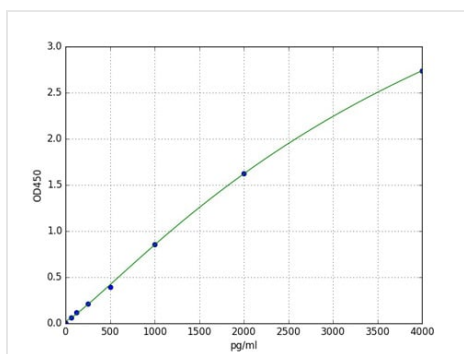
### PRODUCT SYNONYMS

Collagen Type II; Rat Collagen Type II ELISA Kit; COL2 (Collagen Type II)/Chondrocalcin/COL2A1/SEDC/Alpha-1 type II collagen/ANFH/AOM/cartilage collagen/COL11A3/Collagen 2/collagen alpha-1 (II) chain/collagen II; alpha-1 polypeptide/collagen type 2; COL2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                          |
| Sequence Length         | 1487                                                                                                                                                         |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                              |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                         |
| Detection Range         | 62.5-4000pg/ml                                                                                                                                               |
| Sensitivity             | 37.5pg/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 Rat COL2 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 | pg/ml | 0     | 62.5  | 125   | 250   | 500   | 1000  | 2000  | 4000  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Y | OD450 | 0.005 | 0.045 | 0.081 | 0.184 | 0.505 | 0.932 | 1.717 | 2.343 |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for COL2 elisa kit

Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. anti-Rat COL2 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Rat COL2 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 Rat COL2 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Rat COL2 can be calculated.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 119578374                                                                                                    |
| NCBI GeneID                      | 1280                                                                                                         |
| Molecular Weight                 | 29,781 Da                                                                                                    |
| NCBI Official Full Name          | collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_e |
| 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://stage.aaabiotech.com/col2-rat-elisa-kits/collagen-type-ii/100887>