

## Rat Collagen Type I ELISA Kit | COL1 elisa kit

Rat Collagen Type I ELISA Kit

CATALOG #  
AAA101493

REACTIVITY  
Rat

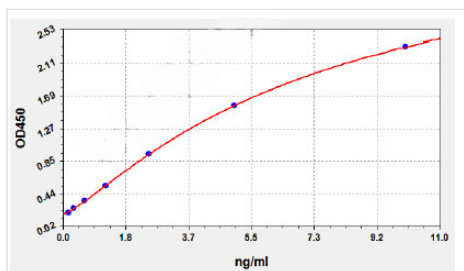
### PRODUCT SYNONYMS

Collagen Type I; Rat Collagen Type I ELISA Kit; COL1/Alpha-1 type I collagen/Collagen alpha-1 (I) chain; COL1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                       |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of COL1. No significant cross-reactivity or interference between COL1 and analogues was observed. |
| Sequence Length         | 486                                                                                                                                                                       |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                                           |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                                      |
| Detection Range         | 0.156-10ng/ml                                                                                                                                                             |
| Sensitivity             | 0.094ng/ml                                                                                                                                                                |
| Intra-assay Precision   | Intra-Assay: CV<8%                                                                                                                                                        |
| Inter-assay Precision   | Inter-Assay: CV<10%                                                                                                                                                       |
| 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)

### ADDITIONAL INFORMATION

#### Related Product Information for COL1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Capture antibody was pre-coated onto 96-well plates. And the biotin conjugated antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed 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 target amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of target can be calculated.

NCBI AND UNIPROT INFORMATION

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| NCBI GI #                        | 957949169                                  |
| NCBI GeneID                      | 1278                                       |
| Molecular Weight                 | 129,314 Da                                 |
| NCBI Official Full Name          | collagen type I alpha 2 isoform 5, partial |
| NCBI Official Synonym Full Names | collagen type I alpha 2                    |
| NCBI Official Symbol             | COL1A2                                     |
| NCBI Official Synonym Symbols    | OI4                                        |
| NCBI Protein Information         | collagen alpha-2(I) chain                  |
| UniProt Protein Name             | Collagen alpha-2(I) chain                  |
| UniProt Gene Name                | COL1A2                                     |
| UniProt Entry Name               | CO1A2_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.

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/col1-rat-elisa-kits/collagen-type-i/101493>