

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

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CATALOG #  
**AAA69870**

REACTIVITY  
**Rat**

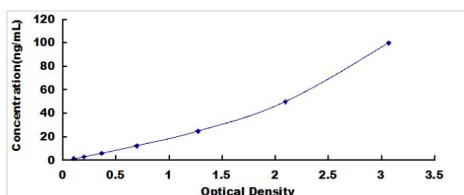
### PRODUCT SYNONYMS

Collagen Type I Alpha 2 (COL1a2); Rat 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                | Rat                                                                                                                                                                                                                                                                                                                                                 |
| Sequence Length           | 1372                                                                                                                                                                                                                                                                                                                                                |
| Assay Type                | Sandwich                                                                                                                                                                                                                                                                                                                                            |
| Samples                   | Serum, Plasma, Tissue Homogenates or Other Biological Fluids.                                                                                                                                                                                                                                                                                       |
| Detection Range           | 1.56-100ng/mL                                                                                                                                                                                                                                                                                                                                       |
| Sensitivity               | 0.55ng/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 COL1a2 rtu elisa kit

**Test Principle:** 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  $\pm$  10nm. The concentration of COL1a2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

|                                  |                               |
|----------------------------------|-------------------------------|
| NCBI GI #                        | 16758080                      |
| NCBI GeneID                      | 84352                         |
| NCBI Accession #                 | NP_445808.1                   |
| NCBI GenBank Nucleotide #        | NM_053356.1                   |
| UniProt Accession #              | P02466; Q9R1E8                |
| Molecular Weight                 | 129,564 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 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.

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Online datasheet: <https://stage.aaabiotech.com/rat-rtu-elisa-kits/collagen-type-i-alpha-2-col1a2/69870>