

## Human Collagen Type III Alpha 1 ELISA Kit | COL3a1 elisa kit

Human Collagen Type III Alpha 1 ELISA Kit

CATALOG #  
**AAA84818**

REACTIVITY  
**Human**

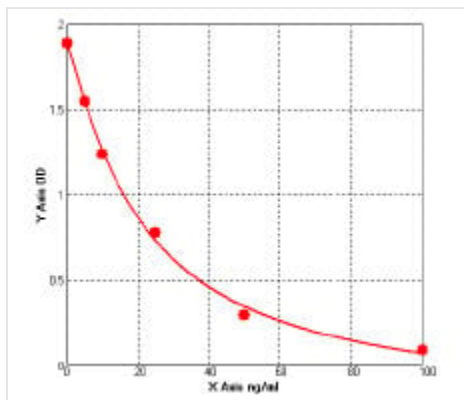
### PRODUCT SYNONYMS

Collagen Type III Alpha 1; Human Collagen Type III Alpha 1 ELISA Kit; COL3a1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                          |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of COL3a1. No significant cross-reactivity or interference between COL3a1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COL3a1 and all the analogues, therefore, cross reaction may still exist in some cases. |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                                     |
| Assay Type              | Quantitative Competitive or Sandwich                                                                                                                                                                                                                                                                                                                                                           |
| Sensitivity             | 1.0 ng/mL                                                                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                            |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for COL3a1 elisa kit | <p>Intended Uses: This COL3a1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human COL3a1. This ELISA kit for research use only, not for therapeutic or test applications!</p> <p>Principle of the Assay: COL3a1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-COL3a1 antibody and an COL3a1-HRP conjugate. The assay sample and buffer are incubated together with COL3a1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the COL3a1 concentration since COL3a1 from samples and COL3a1-HRP conjugate compete for the anti-COL3a1 antibody binding site. Since the number of sites is limited, as more sites are occupied by COL3a1 from the sample, fewer sites are left to bind COL3a1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL3a1 concentration in each sample is interpolated from this standard curve.</p> |
| Product Categories/Family for COL3a1 elisa kit   | Cell Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 119631316                                                                                                                                            |
| NCBI GeneID                      | 1281                                                                                                                                                 |
| Molecular Weight                 | 111,907 Da                                                                                                                                           |
| NCBI Official Full Name          | collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant), isoform CRA_b                                                      |
| NCBI Official Synonym Full Names | collagen, type III, alpha 1                                                                                                                          |
| NCBI Official Symbol             | COL3A1                                                                                                                                               |
| NCBI Official Synonym Symbols    | EDS4A                                                                                                                                                |
| NCBI Protein Information         | collagen alpha-1(III) chain; collagen alpha-1(III) chain; collagen, fetal; alpha1 (III) collagen; Ehlers-Danlos syndrome type IV, autosomal dominant |
| UniProt Protein Name             | Collagen alpha-1(III) chain                                                                                                                          |
| UniProt Gene Name                | COL3A1                                                                                                                                               |
| UniProt Entry Name               | CO3A1_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/col3a1-human-elisa-kits/collagen-type-iii-alpha-1/84818>