

## Human Procollagen Type II ELISA Kit | PC2 elisa kit

Human Procollagen Type II ELISA Kit

CATALOG #  
**AAA16138**

REACTIVITY  
**Human**

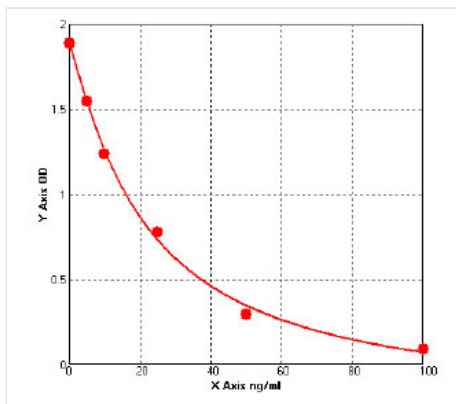
### PRODUCT SYNONYMS

Procollagen Type II; Human Procollagen Type II ELISA Kit; PC2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                       |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of PCOL2. No significant cross-reactivity or interference between PCOL2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between PCOL2 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                                                                                                                                                                                                                                                                                                                                                                    |
| 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 PC2 elisa kit | <p>Intended Uses: This PCOL2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human PCOL2. This ELISA kit for research use only, not for therapeutic or test applications!</p> <p>Principle of the Assay: PCOL2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-PCOL2 antibody and an PCOL2-HRP conjugate. The assay sample and buffer are incubated together with PCOL2-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 PCOL2 concentration since PCOL2 from samples and PCOL2-HRP conjugate compete for the anti-PCOL2 antibody binding site. Since the number of sites is limited, as more sites are occupied by PCOL2 from the sample, fewer sites are left to bind PCOL2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The PCOL2 concentration in each sample is interpolated from this standard curve.</p> |
| Product Categories/Family for PC2 elisa kit   | Cell Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 149032179                                                                                                                                                                                |
| NCBI GeneID                      | 25412                                                                                                                                                                                    |
| Molecular Weight                 | 134,570 Da                                                                                                                                                                               |
| NCBI Official Full Name          | procollagen, type II, alpha 1, isoform CRA_c                                                                                                                                             |
| NCBI Official Synonym Full Names | collagen, type II, alpha 1                                                                                                                                                               |
| NCBI Official Symbol             | Col2a1                                                                                                                                                                                   |
| NCBI Official Synonym Symbols    | CG2A1A; COLLII                                                                                                                                                                           |
| NCBI Protein Information         | collagen alpha-1(II) chain; collagen alpha-1(II) chain; Procollagen II alpha 1; alpha-1 type II collagen; procollagen, type II, alpha 1; collagen type II (Col2A1) gene, enhancer region |
| UniProt Protein Name             | Collagen alpha-1(II) chain                                                                                                                                                               |
| UniProt Gene Name                | Col2a1                                                                                                                                                                                   |
| UniProt Entry Name               | CO2A1_RAT                                                                                                                                                                                |

**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/pc2-human-elisa-kits/procollagen-type-ii/16138>