

## Human Collagen Type IV Alpha 5 (COL4a5) ELISA Kit | COL4a5 elisa kit

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CATALOG #  
**AAA21093**

REACTIVITY  
**Human**

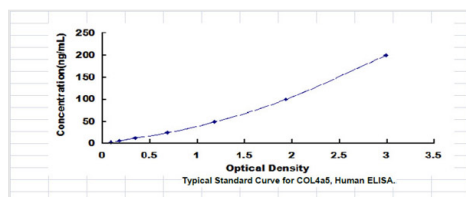
### PRODUCT SYNONYMS

Collagen Type IV Alpha 5 (COL4a5); Human Collagen Type IV Alpha 5 (COL4a5) ELISA Kit; COL4a5 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of COL4a5. No significant cross-reactivity or interference between COL4a5 and analogues was observed.                                                                                                                                                                                                                                                                                                              |
| Assay Type              | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                 | Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                       |
| Detection Range         | 3.12-200ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity             | 1.17ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL4a5 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                   |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level COL4a5 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                 |
| Preparation and Storage | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for COL4a5 elisa kit | <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of COL4a5 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.</p> <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to COL4a5. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to COL4a5. 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 COL4a5, 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 +/- 10nm. The concentration of COL4a5 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> |
| Product Categories/Family for COL4a5 elisa kit   | Metabolic pathway; Developmental science; Nutrition metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**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/human-elisa-kits/collagen-type-iv-alpha-5-col4a5/21093>