

## Mouse Collagen alpha-2 (IV) chain (COL4A2) ELISA Kit | COL4A2 elisa kit

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CATALOG #  
**AAA245854**

REACTIVITY  
**Mouse**

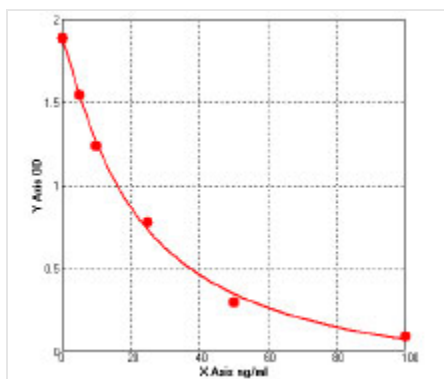
### PRODUCT SYNONYMS

Collagen alpha-2 (IV) chain (COL4A2); Mouse Collagen alpha-2 (IV) chain (COL4A2) ELISA Kit; COL4A2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of COL4alpha2. No significant cross-reactivity or interference between COL4alpha2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COL4alpha2 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 COL4A2 elisa kit | <p>Intended Uses: This COL4alpha2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse COL4alpha2. This ELISA kit for research use only, not for therapeutic or test applications!</p> <p>Principle of the Assay: COL4alpha2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-COL4alpha2 antibody and an COL4alpha2-HRP conjugate. The assay sample and buffer are incubated together with COL4alpha2-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 COL4alpha2 concentration since COL4alpha2 from samples and COL4alpha2-HRP conjugate compete for the anti-COL4alpha2 antibody binding site. Since the number of sites is limited, as more sites are occupied by COL4alpha2 from the sample, fewer sites are left to bind COL4alpha2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL4alpha2 concentration in each sample is interpolated from this standard curve.</p> |
| Product Categories/Family for COL4A2 elisa kit   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 296439507                                                                                                                                                                                                 |
| NCBI GeneID                      | 1278                                                                                                                                                                                                      |
| Molecular Weight                 | 129,314 Da                                                                                                                                                                                                |
| NCBI Official Full Name          | Collagen alpha-2(I) chain                                                                                                                                                                                 |
| 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; collagen alpha-2(I) chain; type I procollagen; alpha 2(I)-collagen; alpha-2 type I collagen; collagen I, alpha-2 polypeptide; collagen of skin, tendon and bone, alpha-2 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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/collagen-alpha-2-iv-chain-col4a2/245854>