

Datasheet for ABIN5653151 **COL12A1 CLIA Kit**



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Overview

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|--------------------------|---------------------------|
| Quantity: | 96 tests |
| Target: | COL12A1 |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Detection Range: | 312.5 pg/mL - 20000 pg/mL |
| Minimum Detection Limit: | 312.5 pg/mL |
| Application: | ELISA |

Product Details

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| Sample Type: | Plasma, Serum |
| Analytical Method: | Quantitative |
| Detection Method: | Chemiluminescent |
| Specificity: | This assay has high sensitivity and excellent specificity for detection of Collagen Type XII (COL12). No significant cross-reactivity or interference between Collagen Type XII (COL12) and analogues was observed. |
| Sensitivity: | 10.62 pg/mL |

Target Details

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|-------------------|--|
| Target: | COL12A1 |
| Alternative Name: | Collagen Type XII (COL12A1 Products) |

Target Details

Background: Gene Name: Collagen Type XII
Gene Aliases: COL12-A1, COL12A1L, COL12A1, Collagen Alpha-1(XII)chain

Application Details

Comment: 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. 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.

Assay Time: 2 - 3 h

Plate: Pre-coated

Protocol: The microplate provided in this kit has been pre-coated with an antibody specific to Collagen Type XII (COL12). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Collagen Type XII (COL12). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Collagen Type XII (COL12) level in the sample or standard.,

Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Collagen Type XII (COL12) were tested 20 times on one plate, respectively
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Collagen Type XII (COL12) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = \frac{SD}{mean} \times 100$
Intra-Assay: $CV < 10\%$
Inter-Assay: $CV < 12\%$

Restrictions: For Research Use only

Handling

Handling Advice: Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.

Storage: 4 °C, -20 °C

Handling

Storage Comment: -20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.

Expiry Date: 4-8 months