

# ELISA Kit for Collagen Type IV Alpha 1 (COL4a1) Catalog No: tcue2099

**Available Sizes** 

**Size:** 96T

Specifications

**Research Area:** 

Metabolic pathway;

**Species Reactivity:** Rattus norvegicus (Rat)

**Sample Type:** serum, plasma, tissue homogenates and other biological fluids

#### Sensitivity:

The minimum detectable dose of this kit is typically less than 1.21ng/mL

**Detection Range:** 

3.12-200ng/mL

Assay Time:

3h

#### **Detection Method:**

Enzyme-linked immunosorbent assay for Antigen Detection.

### **Tested Application:**

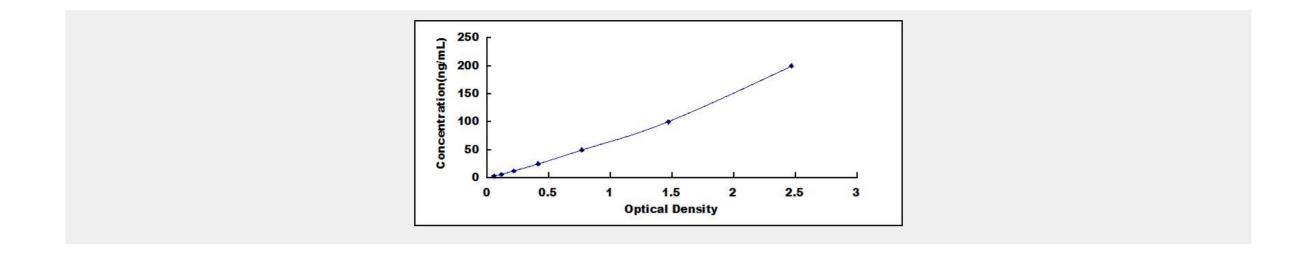
ELISA

## **Test Principle**

The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Collagen Type IV Alpha 1 (COL4a1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Collagen Type IV Alpha 1 (COL4a1). 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 Collagen Type IV Alpha 1 (COL4a1), 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  $\pm 10$ nm. The concentration of Collagen Type IV Alpha 1 (COL4a1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.



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