



# **ELISA Kit for Collagen Type I Alpha 2 (COL1a2)**

Catalog No: tcue2073



## **Available Sizes**

Size: 96T



# **Specifications**

#### **Research Area:**

Metabolic pathway; Bone metabolism;

#### **Species Reactivity:**

Bos taurus; Bovine (Cattle)

### **Sample Type:**

Serum, plasma and other biological fluids

## **Sensitivity:**

The minimum detectable dose of this kit is typically less than 2.52ng/mL

# **Detection Range:**

6.25-400ng/mL

#### **Assay Time:**

3h

#### **Detection Method:**

Enzyme-linked immunosorbent assay for Antigen Detection.

# **Tested Application:**

ELISA

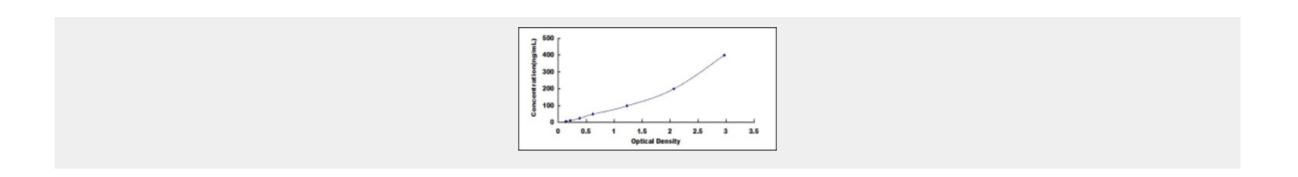
# **Test Principle**

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 I Alpha 2 (COL1a2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Collagen Type I Alpha 2 (COL1a2). 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 I Alpha 2 (COL1a2), 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  $450 \text{nm} \pm 10 \text{nm}$ . The concentration of Collagen Type I Alpha 2 (COL1a2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!