

# ELISA Kit for Thioredoxin Reductase 1 (TrxR1) Catalog No: tcue761

**Available Sizes** 

**Size:** 96T

Specifications

#### **Research Area:**

Signal transduction; Enzyme & Kinase; Metabolic pathway;

**Species Reactivity:** Homo sapiens (Human)

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

#### Sensitivity:

The minimum detectable dose of this kit is typically less than 0.057ng/mL

**Detection Range:** 

0.156-10ng/mL

#### **Assay Time:**

3h

#### **Detection Method:**

Enzyme-linked immunosorbent assay for Antigen Detection.

### **Tested Application:**

ELISA

#### SwissProt:

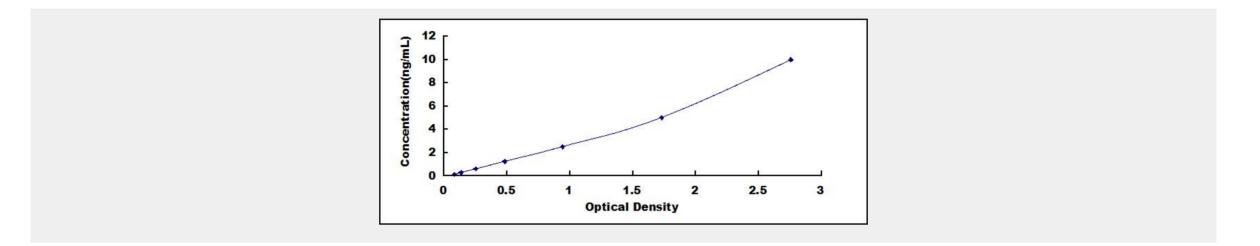
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## **Test Principle**

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 Thioredoxin Reductase 1 (TrxR1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Thioredoxin Reductase 1 (TrxR1). 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 Thioredoxin Reductase 1 (TrxR1), 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  $\pm$  10nm. The concentration of Thioredoxin Reductase 1 (TrxR1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.



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