



# ELISA Kit for Mothers Against Decapentaplegic Homolog 7 (Smad7)

Catalog No: tcue569



## **Available Sizes**

Size: 96T



# **Specifications**

#### **Research Area:**

Developmental science;

## **Species Reactivity:**

Rattus norvegicus (Rat)

## **Sample Type:**

tissue homogenates, cell lysates and other biological fluids

# **Sensitivity:**

The minimum detectable dose of this kit is typically less than 0.055ng/mL

#### **Detection Range:**

0.156-10ng/mL

#### **Assay Time:**

3h

#### **Detection Method:**

Enzyme-linked immunosorbent assay for Antigen Detection.

# **Tested Application:**

**ELISA** 

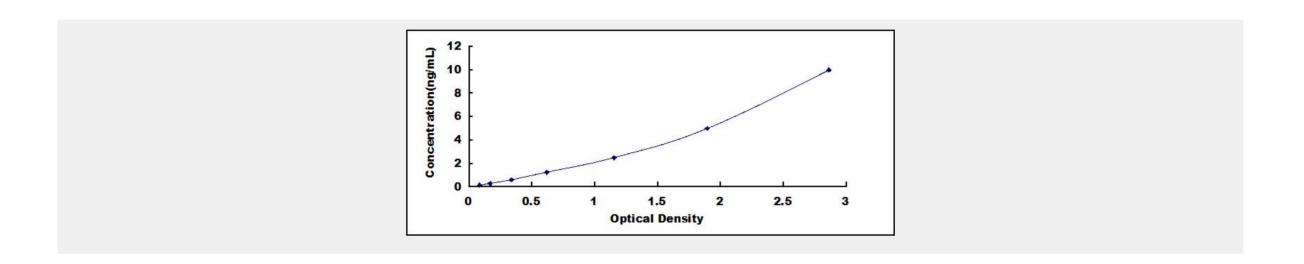
# **Test Principle**

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 Mothers Against Decapentaplegic Homolog 7 (Smad7). Standards or samples are then added to the





appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mothers Against Decapentaplegic Homolog 7 (Smad7). 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 Mothers Against Decapentaplegic Homolog 7 (Smad7), 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 Mothers Against Decapentaplegic Homolog 7 (Smad7) 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!