

# ELISA Kit for Extracellular Signal Regulated Kinase 1 (ERK1)

Catalog No: tcue625



## Available Sizes

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**Size:** 96T



## Specifications

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**Research Area:**

Signal transduction; Enzyme & Kinase; Apoptosis; Tumor immunity;

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**Species Reactivity:**

Homo sapiens (Human)

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**Sample Type:**

tissue homogenates, cell lysates and other biological fluids

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**Sensitivity:**

The minimum detectable dose of this kit is typically less than 0.118ng/mL

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**Detection Range:**

0.312-20ng/mL

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**Assay Time:**

3h

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**Detection Method:**

Enzyme-linked immunosorbent assay for Antigen Detection.

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**Tested Application:**

ELISA

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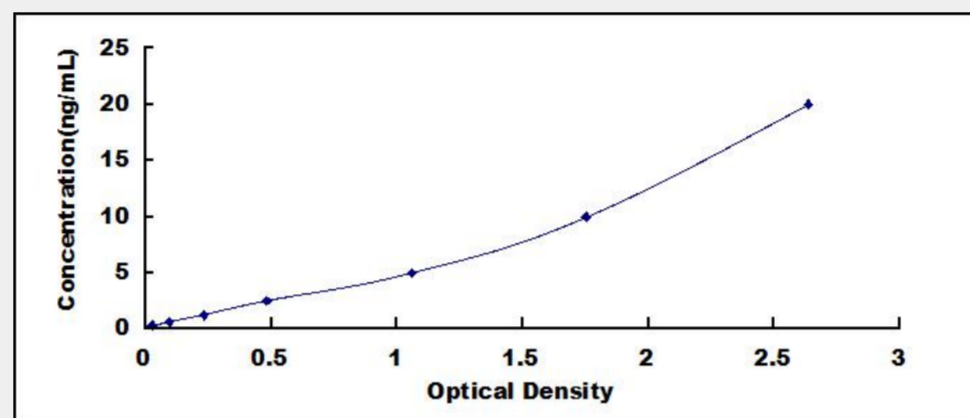
**SwissProt:**

P27361

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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 Extracellular Signal Regulated Kinase 1 (ERK1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Extracellular Signal Regulated Kinase 1 (ERK1). 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 Extracellular Signal Regulated Kinase 1 (ERK1), 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 Extracellular Signal Regulated Kinase 1 (ERK1) 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!