

# ELISA Kit for Calcium / Calmodulin Dependent Protein Kinase II Alpha (CAMK2a)

Catalog No: tcue2901



## Available Sizes

Size: 96T



## Specifications

### Research Area:

Enzyme & Kinase;

### 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:

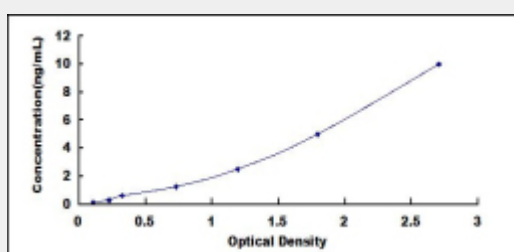
ELISA

### SwissProt:

P11275

## 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 Calcium/Calmodulin Dependent Protein Kinase II Alpha (CAMK2a). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Calcium/Calmodulin Dependent Protein Kinase II Alpha (CAMK2a). 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 Calcium/Calmodulin Dependent Protein Kinase II Alpha (CAMK2a), 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 Calcium/Calmodulin Dependent Protein Kinase II Alpha (CAMK2a) 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!