



Datasheet for ABIN4993357

## Cyclin A1 ELISA Kit



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1 Image

1 Publication

### Overview

Quantity: 96 tests

Target: Cyclin A1 (CCNA1)

Reactivity: Rat

Method Type: Sandwich ELISA

Detection Range: 0.156-10 ng/mL

Minimum Detection Limit: 0.156 ng/mL

Application: ELISA

### Product Details

Purpose: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CCNA1 in Rat serum, plasma and other biological fluids

Sample Type: Plasma, Serum

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: This kit recognizes natural and recombinantRatCCNA1. No significant cross-reactivity or interference between RatCCNA1 and analogues was observed. Note: Limited by existing techniques, cross reaction may still exist, as it is impossible for us to complete the cross-reactivity detection between RatCCNA1 and all the analogues.

Sensitivity: 0.094 ng/mL

Components: Micro ELISA Plate  
Reference Standard

## Product Details

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Concentrated Biotinylated Detection Ab  
Concentrated HRP Conjugate  
Reference Standard & Sample Diluent  
Biotinylated Detection Ab Diluent  
HRP Conjugate Diluent  
Concentrated Wash Buffer (25x)  
Substrate Reagent  
Stop Solution  
Plate Sealer  
Product Description  
Certificate of Analysis

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Material not included: Microplate reader with 450nm wavelength filter  
High-precision transfer pipette, EP tubes and disposable pipette tips  
**37°C Incubator**  
Deionized or distilled water  
Absorbent paper  
Loading slot for Wash Buffer

## Target Details

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Target: Cyclin A1 (CCNA1)

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Alternative Name: Cyclin-A1 (CCNA1) ([CCNA1 Products](#))

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Pathways: [Apoptosis](#), [Cell Division Cycle](#), [AMPK Signaling](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [M Phase](#), [Synthesis of DNA](#)

## Application Details

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Comment: Information on standard material:  
The formulation of the standard is 0.01 M PBS. The standard contains additives (1 % BSA).

Information on reagents:  
Reagents include 1 M  $\text{SO}_2$ . Azide, thimerosal, 2-mercaptoethanol (2-ME) or any other poisonous materials are not used.

Information on antibodies:  
The provided antibodies and their host vary in different kits. All antibodies are affinity purified

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## Application Details

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The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.

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Sample Volume: 100 µL

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Plate: Pre-coated

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Protocol: This ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to CCNA1. Standards or samples are added to the appropriate micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for CCNA1 and Avidin-Horseradish Peroxidase (HRP) conjugate is added to each micro plate well successively and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain CCNA1, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm ± 2 nm. The OD value is proportional to the concentration of CCNA1. You can calculate the concentration of CCNA1 in the samples by comparing the OD of the samples to the standard curve. 6th Edition, revised in June, 2015 [www.elabscience.com](http://www.elabscience.com) 4

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Restrictions: For Research Use only

## Handling

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Handling Advice: All the reagents in the kit should be stored according to the labels on vials. Unused wells should be returned to the foil pouch with the desiccant pack and resealed along entire edge of zip-seal. Substrate Reagent shouldn't be kept at -20 °C (Check!). Exposure of reagents to strong light should be avoided in the process of incubation and storage. All the taps of reagents should be tightened to prevent evaporation and microbial contamination. If not to store reagents according to above suggestions, erroneous results may occur.

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Storage: 4 °C/-20 °C

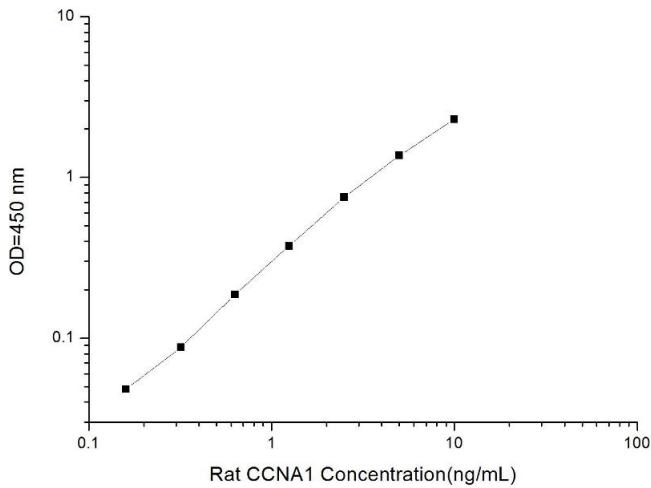
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Storage Comment: The unopened kit can be stored at 4°C *for 1 month. If the kit is not used within 1 month, store the items separately according to the conditions since the kit is received.*

## Publications

Product cited in: Jin, Shao, Sun, Miao, Li, Shi: "Urinary kidney injury molecule-1 as an early diagnostic biomarker of obstructive acute kidney injury and development of a rapid detection method." in: **Molecular medicine reports**, Vol. 15, Issue 3, pp. 1229-1235, (2017) ([PubMed](#)).

## Images



### ELISA

**Image 1.** Typical standard curve