

## Datasheet for ABIN6730453 CDK1 ELISA Kit

### 3 Images



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### Overview

Quantity: 96 tests

Target: CDK1

Binding Specificity: pThr161

Reactivity: Human

Method Type: Sandwich ELISA

Application: ELISA

### Product Details

Purpose: Human Phospho-CDK1 (Thr161) and Total CDK1 ELISA Kit. This assay semi-quantitatively measures CDK1 phosphorylated at Threonine-161 as well as total CDK1 in cell lysate samples.

Sample Type: Cell Samples, Tissue Lysate

Analytical Method: Semi-Quantitative

Detection Method: Colorimetric

Specificity: This ELISA kit recognizes Human CDK1 phosphorylated at site Threonine-161 as well as total CDK1.

Characteristics:

- Pre-Coated 96-well Strip Microplate
- Wash Buffer
- Anti-Phospho Antibody
- Anti-Pan Antibody
- HRP-Conjugated Secondary Antibody
- Streptavidin-Conjugated HRP
- Assay Diluent

## Product Details

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- TMB One-Step Substrate
- Stop Solution
- Lysis Buffer
- Positive Control Sample

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### Components:

- Pre-Coated 96-well Strip Microplate
- Wash Buffer
- Anti-Phospho Antibody
- Anti-Pan Antibody
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### Material not included:

- Distilled or deionized water
- 100 mL and 1 liter graduated cylinders
- Tubes to prepare sample dilutions
- Protease and Phosphatase inhibitors
- Precision pipettes to deliver 2 µL to 1 mL volumes
- Adjustable 1-25 mL pipettes for reagent preparation
- Benchtop rocker or shaker
- Microplate reader capable of measuring absorbance at 450 nm

## Target Details

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Target: CDK1

Alternative Name: CDK1 ([CDK1 Products](#))

Gene ID: 983

UniProt: [P06493](#)

Pathways: [Cell Division Cycle](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [M Phase](#), [Toll-Like Receptors Cascades](#), [Synthesis of DNA](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

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## Application Details

Protocol:	<ol style="list-style-type: none"><li>1. Prepare all reagents and samples as instructed in the manual.</li><li>2. Add 100 <math>\mu</math>L of sample or positive control to each well.</li><li>3. Incubate 2.5 h at RT or O/N at 4 <math>^{\circ}</math>C.</li><li>4. Add 100 <math>\mu</math>L of prepared primary antibody to each well.</li><li>5. Incubate 1 h at RT.</li><li>6. Add 100 <math>\mu</math>L of prepared 1X HRP-Streptavidin to each well.</li><li>7. Incubate 1 h at RT.</li><li>8. Add 100 <math>\mu</math>L of TMB One-Step Substrate Reagent to each well.</li><li>9. Incubate 30 min at RT.</li><li>10. Add 50 <math>\mu</math>L of Stop Solution to each well.</li><li>11. Read at 450 nm immediately.</li></ol>
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Restrictions:	For Research Use only
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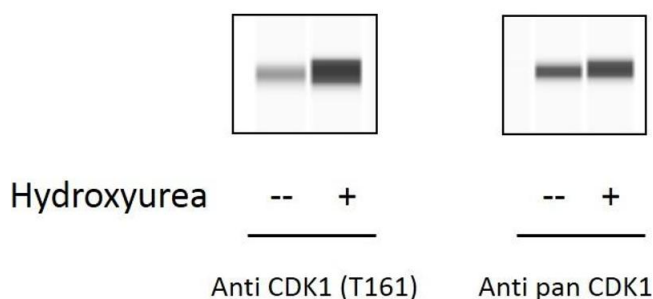
## Handling

Storage:	-20 $^{\circ}$ C
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Storage Comment:	Upon receipt, the kit should be stored at -20 $^{\circ}$ C. Please use within 6 months from the date of shipment. After initial use, Wash Buffer Concentrate (Item B), Assay Diluent (Item E), TMB One-Step Substrate Reagent (Item H), HRP-Streptavidin (Item G), Stop Solution (Item I) and Cell Lysate Buffer (Item J) should be stored at 4 $^{\circ}$ C to avoid repeated freeze-thaw cycles. Return unused wells to the pouch containing desiccant pack, reseal along entire edge and store at -20 $^{\circ}$ C. Reconstituted Positive Control (Item K) should be stored at -70 $^{\circ}$ C.
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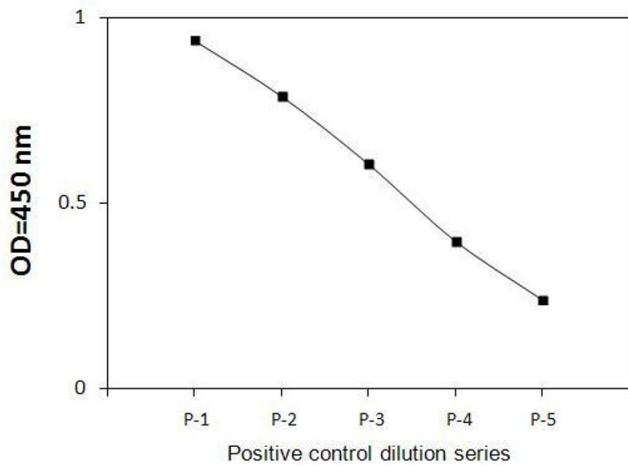
Expiry Date:	6 months
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## Images



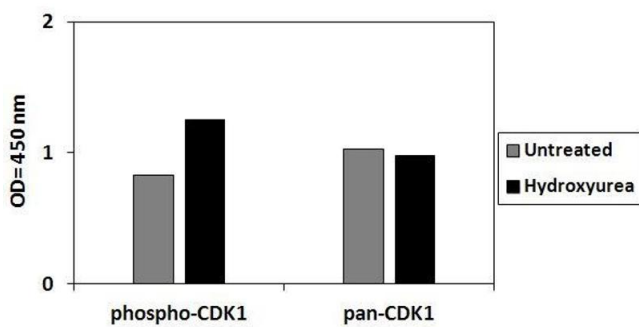
### ELISA

**Image 1.** HeLa cells were treated or untreated with Hydroxyurea. Cell lysates were analyzed using this phosphoELISA and Western Blot.



### ELISA

**Image 2.** HeLa cells were treated with Hydroxyurea. Solubilize cells at  $4 \times 10^7$  cells/ml in Cell Lysate Buffer. Serial dilutions of lysates were analyzed in this ELISA.



### ELISA

**Image 3.** HeLa cells were treated or untreated with Hydroxyurea. Cell lysates were analyzed using this phosphoELISA and Western Blot.