

## Datasheet for ABIN5526724

### CDK1 ELISA Kit



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#### Overview

|                      |                |
|----------------------|----------------|
| Quantity:            | 96 tests       |
| Target:              | CDK1           |
| Binding Specificity: | pThr161, total |
| Reactivity:          | Human          |
| Method Type:         | Cell ELISA     |
| Application:         | ELISA          |

#### Product Details

|                    |                                                                                                                                                                                                                                                                                                                                   |
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| Purpose:           | Cell-Based ELISA Kit. This assay semi-quantitatively measures CDK1 phosphorylated at Threonine-161 as well as total CDK1 in adherent cell lines.                                                                                                                                                                                  |
| Sample Type:       | Adherent Cell Culture                                                                                                                                                                                                                                                                                                             |
| 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:   | <ul style="list-style-type: none"><li>• Rapidly measure phosphorylated protein in adherent cell lines</li><li>• Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)</li><li>• No sample lysis is needed</li><li>• Compatible with a standard ELISA plate reader</li></ul> |
| Components:        | <ul style="list-style-type: none"><li>• Uncoated 96-well Strip Microplate</li></ul>                                                                                                                                                                                                                                               |

## Product Details

- Wash Buffers
- Fixing Solution
- Quenching Buffer
- Blocking Buffer
- Anti-phospho antibody
- Anti-pan antibody
- HRP-Conjugated Secondary Antibody
- TMB One-Step Substrate
- Stop Solution

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Material not included: | <ul style="list-style-type: none"><li>• Distilled or deionized water</li><li>• 100 mL and 1 liter graduated cylinders</li><li>• Tubes to prepare sample dilutions</li><li>• Protease and Phosphatase inhibitors</li><li>• Precision pipettes to deliver 2 µL to 1 mL volumes</li><li>• Adjustable 1-25 mL pipettes for reagent preparation</li><li>• Benchtop rocker or shaker</li><li>• Microplate reader capable of measuring absorbance at 450 nm</li></ul> |
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## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CDK1                                                                                                                                                                                                                                                                                                                                                                                       |
| Alternative Name: | CDK1 ( <a href="#">CDK1 Products</a> )                                                                                                                                                                                                                                                                                                                                                     |
| Gene ID:          | 983                                                                                                                                                                                                                                                                                                                                                                                        |
| UniProt:          | <a href="#">P06493</a>                                                                                                                                                                                                                                                                                                                                                                     |
| Pathways:         | <a href="#">Cell Division Cycle</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">DNA Replication</a> , <a href="#">M Phase</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">Synthesis of DNA</a> |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                    |
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| Application Notes: | Optimal working dilution should be determined by the investigator.                                                                                                                                                                                                                                                                 |
| Plate:             | Pre-coated                                                                                                                                                                                                                                                                                                                         |
| Protocol:          | <ol style="list-style-type: none"><li>1. Prepare all reagents and samples as instructed in the manual.</li><li>2. Add 100 µL of sample or positive control to each well.</li><li>3. Incubate 2.5 h at RT or O/N at 4 °C.</li><li>4. Add 100 µL of prepared primary antibody to each well.</li><li>5. Incubate 1 h at RT.</li></ol> |

Application Details

- 6. Add 100 µL of prepared 1X HRP-Streptavidin to each well.
- 7. Incubate 1 h at RT.
- 8. Add 100 µL of TMB One-Step Substrate Reagent to each well.
- 9. Incubate 30 min at RT.
- 10. Add 50 µL of Stop Solution to each well.
- 11. Read at 450 nm immediately.

Restrictions: For Research Use only

Handling

Storage: -20 °C

Storage Comment: Upon receipt, the kit should be stored at -20 °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 °C to avoid repeated freeze-thaw cycles. Return unused wells to the pouch containing desiccant pack, reseal along entire edge and store at -20 °C. Reconstituted Positive Control (Item K) should be stored at -70 °C.

Expiry Date: 6 months