

Datasheet for ABIN2748477 **CDKN1B ELISA Kit**



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Overview

Quantity:	96 tests
Target:	CDKN1B
Binding Specificity:	pThr198, total
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Human Phospho-P27/Kip1 (T198) and Total P27/Kip1 ELISA Kit. This assay semi-quantitatively measures phosphorylated P27/Kip1 (Thr198) and Total P27/Kip1 in lysate samples.
Sample Type:	Cell Lysate, Tissue Lysate
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The antibody pair provided in this kit recognizes human p27/Kip1 Phosphorylated at site Threonine-198 as well as total (pan) p27/Kip1.
Characteristics:	<ul style="list-style-type: none">• Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)• Screen numerous different cell lysates without performing a Western Blot analysis• Minimal hands-on time, convenient, and non-radioactive material
Components:	<ul style="list-style-type: none">• Pre-Coated 96-well Strip Microplate• Wash Buffer

Product Details

- Anti-Phospho Antibody
- Anti-Pan Antibody
- HRP-Conjugated Secondary Antibody
- Streptavidin-Conjugated HRP
- Assay Diluent
- TMB One-Step Substrate
- Stop Solution
- Lysis Buffer
- Positive Control Sample

Material not included:	<ul style="list-style-type: none">• 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
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Target Details

Target:	CDKN1B
Alternative Name:	Cyclin-Dependent Kinase Inhibitor 1B (p27, Kip1) (CDKN1B Products)
Background:	P27/Kip1/CDKN1B phosphorylated at T198 and total p27/Kip1/CDKN1B
Gene ID:	5715
UniProt:	O00233
Pathways:	Cell Division Cycle , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Positive Regulation of Peptide Hormone Secretion , Negative Regulation of Hormone Secretion , Sensory Perception of Sound , Mitotic G1-G1/S Phases , DNA Replication , Positive Regulation of Endopeptidase Activity , Synthesis of DNA , Autophagy

Application Details

Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	<ol style="list-style-type: none">1. Prepare all reagents and samples as instructed in the manual.2. Add 100 µL of sample or positive control to each well.

Application Details

- 3. Incubate 2.5 h at RT or O/N at 4 °C.
- 4. Add 100 µL of prepared primary antibody to each well.
- 5. Incubate 1 h at RT.
- 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.

Assay Procedure: Prepare all reagents and samples as instructed in the manual.

Add 100 µL of sample or positive control to each well.

Incubate 2.5 h at RT or O/N at 4 °C.

Add 100 µL of prepared primary antibody to each well.

Incubate 1 h at RT.

Add 100 µL of prepared 1X HRP-Streptavidin to each well.

Incubate 1 h at RT.

Add 100 µL of TMB One-Step Substrate Reagent to each well.

Incubate 30 min at RT.

Add 50 µL of Stop Solution to each well.

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