

# Phospho-CDK1-T14 Rabbit mAb

Catalog No.: AP1465

Recombinant

4 Publications

## Basic Information

### Observed MW

34 kDa

### Calculated MW

34 kDa

### Category

Primary antibody

### Applications

WB, ELISA

### Cross-Reactivity

Human, Mouse

### CloneNo number

ARC66339

## Background

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

**WB** 1:1000 - 1:5000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

983

**Swiss Prot**

P06493

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

CDC2; CDC28A; P34CDC2; Phospho-CDK1-T14

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

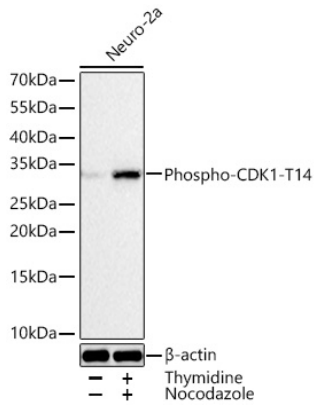
Affinity purification

**Storage**

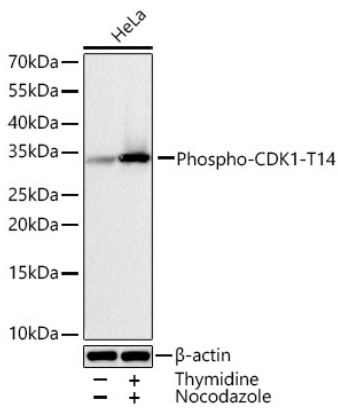
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of lysates from Neuro-2a cells using Phospho-CDK1-T14 Rabbit mAb (AP1465) at 1:3000 dilution incubated at room temperature for 1.5 hours. Neuro-2a cells were treated with Thymidine (2 nM) for 16 hours and Nocodazole (100 ng/mL) at 37°C for 24 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30  $\mu$ g per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90 s.



Western blot analysis of lysates from HeLa cells using Phospho-CDK1-T14 Rabbit mAb (AP1465) at 1:3000 dilution incubated at room temperature for 1.5 hours. HeLa cells were treated with Thymidine (2 nM) for 16 hours and Nocodazole (100 ng/mL) at 37°C for 24 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30  $\mu$ g per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 45 s.