

AP1014

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# Phospho-Cyclin E1-T77 Rabbit mAb

Catalog No.: AP1014

Recombinant

## Basic Information

### Observed MW

48kDa

### Calculated MW

47kDa

### Category

SMab Recombinant Monoclonal  
Antibody

### Applications

WB, ELISA

### Cross-Reactivity

Mouse

### CloneNo number

ARC1559

## Background

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis. This protein was found to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein mapped to the ATM locus), which participates in cell-cycle regulated histone gene expression and plays a critical role in promoting cell-cycle progression in the absence of pRB.

## Recommended Dilutions

WB 1:500 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

Gene ID  
898

Swiss Prot  
P24864

### Immunogen

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

### Synonyms

CCNE; pCCNE1; Phospho-Cyclin E1-T77

## Contact

 [www.abclonal.com](http://www.abclonal.com)

## Product Information

Source  
Rabbit

Isotype  
IgG

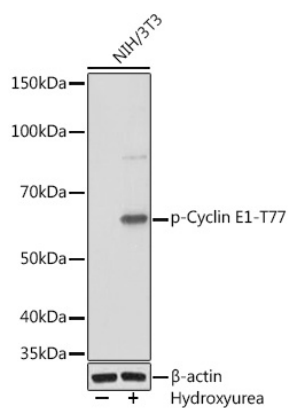
Purification  
Affinity purification

### Storage

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

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of lysates from NIH/3T3 cells, using Phospho-Cyclin E1-T77 Rabbit mAb (AP1014) at 1:1000 dilution. NIH/3T3 cells were treated with Hydroxyurea (4 Mm) at 37°C for 20 hours.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% BSA.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 3min.