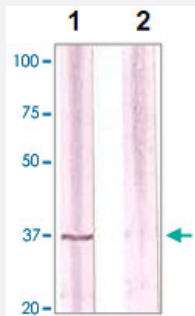


# CDC2 polyclonal antibody

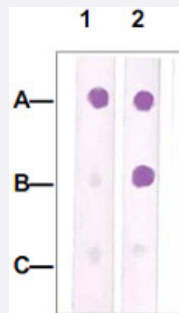
Catalog # PAB12668      Size 100 ug

## Applications



### Western Blot (Cell lysate)

The A-431 cell lysate resolved onto 12% SDS-PAGE, transferred onto NC membrane, and followed by an immunoblotting with CDC2 polyclonal antibody (Cat # PAB12668, lane 1) at 1 : 500, or with a pre-incubation of immunizing peptide (lane 2).



### Dot Blot (Peptide)

Dot Blot : 1 ug peptide was blot onto NC membrane.

A : CDC2 (pY15, Phospho-specific).

B : CDC2 (Paired Y15, Non phospho-speicfic).

C : Non-related phospho-specific peptide.

Followed were blotted at a 1 : 2000 dilution by :

1. Phospho-CDC2 Y15 polyclonal antibody (Cat # PAB12614).

2 : CDC2 polyclonal antibody (Cat # PAB12668).

## Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CDC2.
Immunogen	A synthetic peptide corresponding to residues surrounding Y15 of human CDC2.
Host	Rabbit
Reactivity	Human
Specificity	This antibody recognizes CDC2 (PairedY15) without a phosphorylated site at Tyrosine 15.
Form	Liquid

## Quality Control Testing

Antibody Reactive Against Synthetic Peptide.

## Recommend Usage

Western Blot (0.1-1 ug/mL)  
ELISA (0.01-0.1 ug/mL)  
Immunoprecipitation (2-5 ug/mL)  
Immunohistochemistry (1:200)  
The optimal working dilution should be determined by the end user.

## Storage Buffer

In TBS, pH 7.2 (BSA, 10% Proclin300)

## Storage Instruction

Store at 4°C. For long term storage store at -20°C or -80°C.  
Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Cell lysate)

The A-431 cell lysate resolved onto 12% SDS-PAGE, transferred onto NC membrane, and followed by an immunoblotting with CDC2 polyclonal antibody (Cat # PAB12668, lane 1) at 1 : 500, or with a pre-incubation of immunizing peptide (lane 2).

- Immunohistochemistry

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

- Dot Blot (Peptide)

Dot Blot : 1 ug peptide was blot onto NC membrane.

A : CDC2 (pY15, Phospho-specific).

B : CDC2 (Paired Y15, Non phospho-specific).

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Followed were blotted at a 1 : 2000 dilution by :

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## Gene Info — CDC2

## Entrez GeneID

[983](#)

## Gene Name

CDC2

## Gene Alias

CDC28A, CDK1, DKFZp686L20222, MGC111195

## Gene Description

cell division cycle 2, G1 to S and G2 to M

Omim ID [116940](#)

Gene Ontology [Hyperlink](#)

### Gene Summary

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. [provided by RefSeq]

### Other Designations

OTTHUMP00000019660|cell cycle controller CDC2|cell division control protein 2 homolog|cell division cycle 2 protein|cyclin-dependent kinase 1|p34 protein kinase

## Publication Reference

- [Cell cycle independent interaction of CDC2 with the centrosome, which is associated with the nuclear matrix-intermediate filament scaffold.](#)

Pockwinse SM, Krockmalnic G, Doxsey SJ, Nickerson J, Lian JB, van Wijnen AJ, Stein JL, Stein GS, Penman S.  
PNAS 1997 Apr; 94(7):3022.

Application: IF, EM, Human, Saos-2, WI-38, HeLa, IMR-90 cells

## Pathway

- [Cell cycle](#)
- [Gap junction](#)
- [p53 signaling pathway](#)

## Disease

- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Dementia](#)
- [Genetic Predisposition to Disease](#)

- [Lung Neoplasms](#)
- [Pulmonary Disease](#)