

Cdc2 (Phospho Tyr15) Rabbit pAb

CatalogNo: YP0054

Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Monkey

Applications

- WB, ELISA

MW

- 34kD (Observed)

Isotype

- IgG

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

ELISA 1:10000

Not yet tested in other applications.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human CDC2 around the phosphorylation site of Tyr15. AA range:5-54

Specificity

Phospho-Cdc2 (Y15) Polyclonal Antibody detects endogenous levels of Cdc2 protein only when phosphorylated at Y15. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):GTyGV

Target Information

Gene name CDK1

Protein Name Cyclin-dependent kinase 1

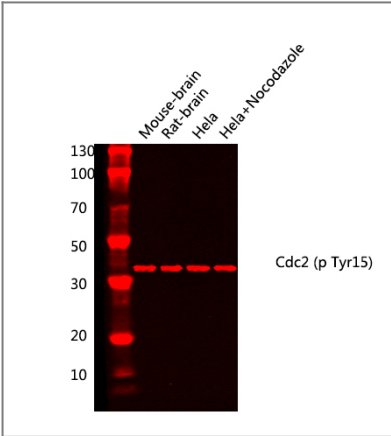
Organism	Gene ID	UniProt ID
Human	983 ;	P06493 ;
Mouse	12534 ;	P11440 ;
Rat	54237 ;	P39951 ;

Cellular Localization Nucleus. Cytoplasm. Mitochondrion . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, spindle. Cytoplasmic during the interphase. Colocalizes with SIRT2 on centrosome during prophase and on spindle fibers during metaphase of the mitotic cell cycle. Reversibly translocated from cytoplasm to nucleus when phosphorylated before G2-M transition when associated with cyclin-B1. Accumulates in mitochondria in G2-arrested cells upon DNA-damage.

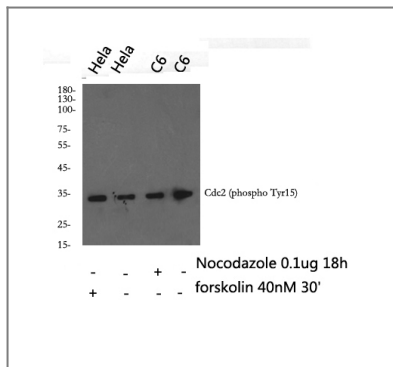
Tissue specificity Isoform 2 is found in breast cancer tissues.

Function Catalytic activity:ATP + [DNA-directed RNA polymerase] = ADP + [DNA-directed RNA polymerase] phosphate.,Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Phosphorylation at Thr-14 or Tyr-15 inactivates the enzyme, while phosphorylation at Thr-161 activates it.,Function:Plays a key role in the control of the eukaryotic cell cycle. It is required in higher cells for entry into S-phase and mitosis. p34 is a component of the kinase complex that phosphorylates the repetitive C-terminus of RNA polymerase II.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Forms a stable but non-covalent complex with a regulatory subunit and with a cyclin. Interacts with DLGAP5. Isoform 2 is unable to complex with cyclin B1 and also fails to bind to the CDK inhibitor p21. Interacts with catalytically active CCNB1 and RALBP1 during mitosis to form an endocytotic complex during interphase.,

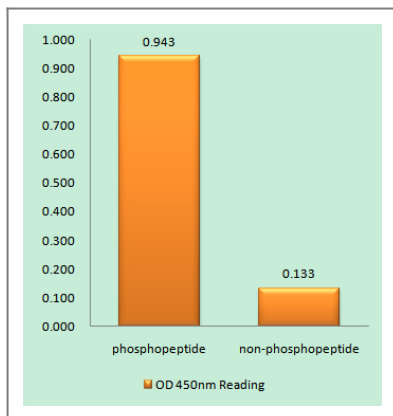
Validation Data



Western blot analysis of lysates from Mouse-brain, Rat-brain, HeLa cells treated with nocodazole 1ug/ml 18h, using CDC2 p-Thr15 Antibody. Primary Antibody was diluted at 1:1000 4°C over night,secondary antibody (Immunoway cat:RS23710)was diluted at 1:10000, 37° 1hour.



Western blot analysis of Cdc2 (phospho Tyr15) Polyclonal Antibody, using HeLa, C6 cell treated or untreated with forskolin 40nM 30', Nocodazole (Immunoway cat#:MC0250) 0.1ug/ml 18hour, 4°C over night, secondary antibody (cat: RS0002 was diluted at 1:10000, 37° 1hour).



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CDC2 (Phospho-Tyr15) Antibody

Contact information

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Please scan the QR code to access additional product information:
Cdc2 (Phospho Tyr15) Rabbit pAb

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)