

Cdk1/Cdc2 (Phospho Thr161) Rabbit pAb

CatalogNo: YP1039 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 34kD (Calculated)

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 1:500-2000

IHC 1:100-1:300

ELISA 1:5000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human CDK1/CDC2 around the phosphorylation site of Thr161. AA range:126-175

Specificity

Phospho-Cdk1/Cdc2 (T161) Polyclonal Antibody detects endogenous levels of Cdk1/Cdc2 protein only when phosphorylated at T161. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):VYTHE

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

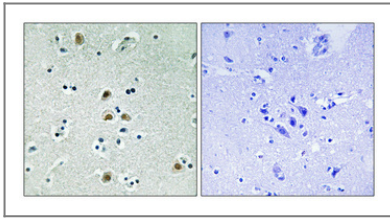
Nucleus. Cytoplasm. Mitochondrion . Cytoplasm , cytoskeleton , microtubule organizing center , centrosome . Cytoplasm , cytoskeleton , spindle. Cytoplasmic during the interphase. Colocalizes with SIRT2 on centrosome during prophase and on spindle fibers during metaphase of the mitotic cell cycle. Reversibly 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



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

Contact information

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Cdk1/Cdc2 (Phospho Thr161) Rabbit pAb

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