

CDK1/2 (Phospho Thr14) (PT0910R) PT™ Rabbit mAb

CatalogNo: YM8679 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, IP, ELISA

MW

- 34kD (Calculated)
34kD (Observed)

Isotype

- IgG, Kappa

Storage

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

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

Basic Information

Clonality Monoclonal

Clone Number PT0910R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity Phospho-Cdk1/2 (T14) Antibody detects endogenous levels of Cdk1/2 protein only when phosphorylated at T14. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):EGtYG

Target Information

Gene name CDK1/CDK2

Protein Name Cyclin-dependent kinase 1/2

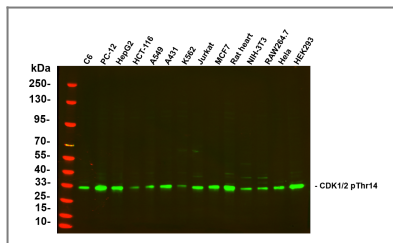
Organism	Gene ID	UniProt ID
Human	1017 ;	P06493 ; P24941 ;
Mouse	12534 ; 12566 ;	
Rat	54237 ;	P39951 ; Q63699 ;

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 splindle 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.

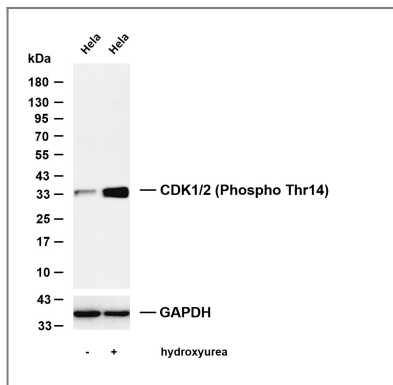
Tissue specificity Isoform 2 is found in breast cancer tissues.

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. ,

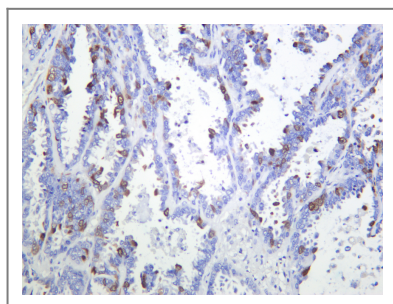
Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C over night with a 1:5000 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HeLa - Human cervical cancer Lane2: HEK293 - Human normal embryonic kidney Lane3: HepG2 - Human hepatocellular carcinoma Lane4: HCT-116 - Human colon cancer Lane5: A549 - Human lung adenocarcinoma Lane6: A431 - Human skin squamous cell carcinoma Lane7: K562 - Human chronic myeloid leukemia Lane8: Jurkat - Human acute T cell leukemia cells Lane9: MCF7 - Human breast cancer Lane10: SH-SY5Y - Human neuroblastoma cells Lane11: NIH-3T3 - NIH mouse fibroblasts Lane12: RAW264.7 - Mouse mononuclear macrophage leukemia cells Lane13: C6 - Rat glioma cells Lane14: PC-12 - Pheochromocytoma in rats



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CDK1/2 (Phospho Thr14) (PT0910R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: HeLa was treated with hydroxyurea for 16 hours Predicted band size: 34kDa Observed band size: 34kDa



Human colon was stained with anti-CDK1/2 (Phospho Thr14) (PT0910R) Rabbit antibody

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Please scan the QR code to access additional product information:
CDK1/2 (Phospho Thr14) (PT0910R) PT™ Rabbit mAb