

CDK4 (PT0399R) PT™ Rabbit mAb

CatalogNo: YM8244 **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

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

Basic Information

Clonality Monoclonal

Clone Number PT0399R

Immunogen Information

Specificity Endogenous

Target Information

Gene name CDK4

Protein Name Cyclin-dependent kinase 4

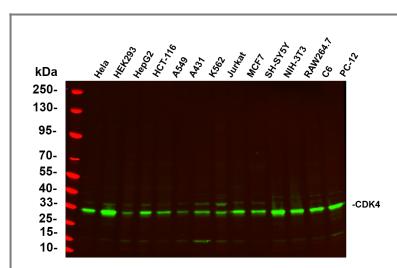
Organism	Gene ID	UniProt ID
Human	1019 ;	P11802 ;
Mouse	12567 ;	P30285 ;
Rat	94201 ;	P35426 ;

Cellular Localization Cytoplasm, Nucleus

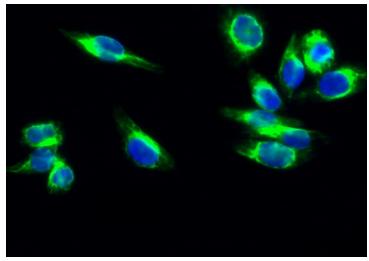
Tissue specificity Brain, Muscle,

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein., Disease: CDK4 mutations are involved in tumor formation., Disease: Defects in CDK4 are the cause of cutaneous malignant melanoma 3 (CMM3) [MIM:609048, 155600]. Malignant melanoma is a malignant neoplasm of melanocytes, arising *de novo* or from a preexisting benign nevus, which occurs most often in the skin but also may involve other sites., enzyme regulation: Phosphorylation at Thr-172 is necessary for enzymatic activity., Function: Probably involved in the control of the cell cycle., 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 complex with D-type G1 cyclins. Interacts with SEI1 and ZNF655/VIK.,

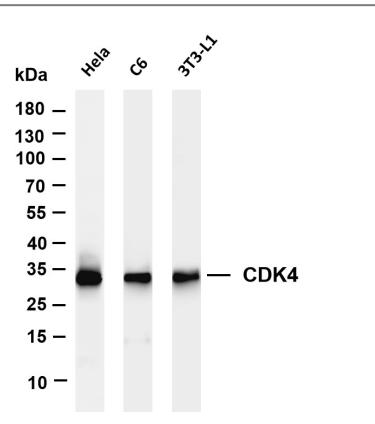
Validation Data



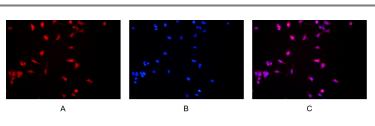
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: Hela - Human cervical cancer Lane2: HEK293 - Human normal 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 Predicted band size: 34kDa Observed band size: 34kDa



Immunofluorescence analysis of HeLa cell. 1,Cdk4 Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CDK4 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: C6 Lane 3: 3T3-L1 Predicted band size: 34kDa Observed band size: 34kDa



Immunofluorescence analysis of HEK293. Picture A: CDK4 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

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**CDK4 (PT0399R)
PT™ Rabbit mAb**

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