

## CDK4 Polyclonal Antibody

Catalog number: 11026-1-AP

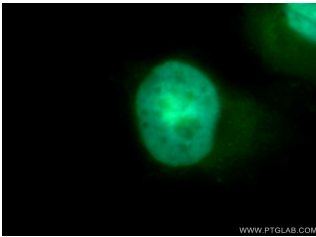
Size: 53 µg/150 µl

Source: Rabbit

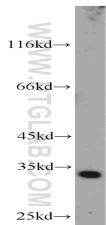
Isotype: IgG

Synonyms:

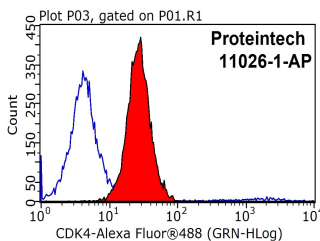
CDK4; CDK4, Cell division protein kinase 4, CMM3, cyclin dependent kinase 4, PSK J3



Immunofluorescent analysis of MCF-7 cells, using CDK4 antibody 11026-1-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG (green). Blue pseudocolor = DAPI (fluorescent DNA dye)



HeLa cells were subjected to SDS PAGE followed by western blot with 11026-1-AP (CDK4 antibody) at dilution of 1:1000



1X10<sup>6</sup> MCF-7 cells were stained with 0.2 µg CDK4 antibody (11026-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

### Background

Cyclin-dependent kinase-4 (CDK4) is a protein-serine kinase involved in the cell cycle. It is essential for the G1- to S-phase transition during the cell cycle and its expression is primarily controlled at the transcriptional level (PMID:17253961). CCND1-CDK4 axis is not only critical in glial tumor cells but also in stromal-derived cells in the surrounding tumor microenvironment that are vital to sustain tumor outgrowth (PMID:21844184).

### Applications

Tested applications:	ELISA, WB, IF, FC, IP, IHC
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, zebrafish
Calculated CDK4 MW:	34 kDa
Observed CDK4 MW:	34 kDa
Positive WB detected in	HeLa cells, HepG2 cells, rat pancreas tissue
Positive IP detected in	HeLa cells
Positive IHC detected in	Human lung cancer tissue, human breast cancer tissue, human lymphoma tissue
Positive IF detected in	MCF-7 cells
Positive FC detected in	MCF-7 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:20-1:200 FC: N/A

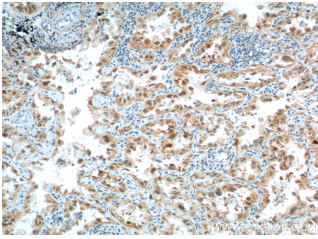
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

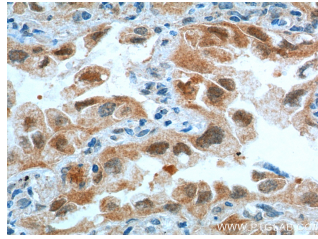
Immunogen:	Ag1505
GenBank accession number:	BC010153
Gene ID (NCBI):	1019
Full name:	Cyclin-dependent kinase 4

### Product information

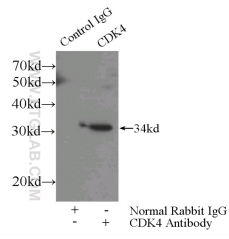
Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



**Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 11026-1-AP( CDK4 Antibody) at dilution of 1:200 (under 10x lens). heat mediated antigen retrieved with Tris-EDTA buffer(pH9).**



**Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 11026-1-AP( CDK4 Antibody) at dilution of 1:200 (under 40x lens). heat mediated antigen retrieved with Tris-EDTA buffer(pH9).**



**IP Result of anti-CDK4 (IP:11026-1-AP, 3ug; Detection:11026-1-AP 1:1000) with HeLa cells lysate 4000ug.**