

# Human CDK4 antibody

Catalog Number: ATGA0272

## PRODUCT INFORMATION

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**Catalog number**

ATGA0272

**Clone No.**

AT6D10

**Product type**

Monoclonal Antibody

**UnitProt No.**

P11802

**NCBI Accession No.**

NP\_000066

**Alternative Names**

Cyclin-dependent kinase 4, CMM3, PSK-J3

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human CDK4 (1-303aa) purified from E. coli

**Isotype**

IgG2a kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB

**Usage**

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

**Storage**

# Human CDK4 antibody

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

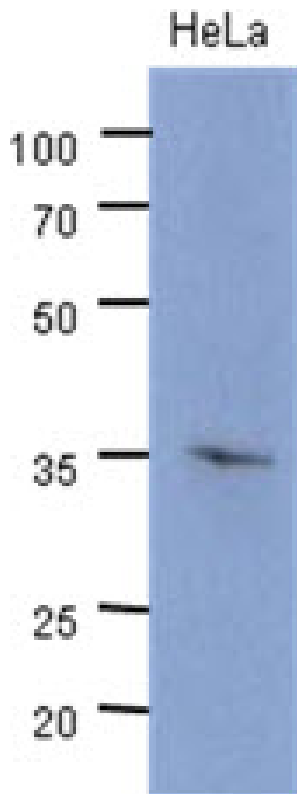
Cyclin-dependent kinase 4, also known as CDK4, belongs to the cyclin-dependent kinases (CDK) family. CDKs are a family of protein kinases first discovered for their role in regulating the cell cycle. They are also involved in regulating transcription, mRNA processing, and the differentiation of nerve cells. CDK4, in complex with D-type cyclins, is thought to regulate cell growth during the G1 phase of the cell cycle. This association with a D-type cyclin up-regulates CDK4 activity, whereas binding to the CDK inhibitor p16 down-regulates CDK4 activity.

### General References

- Coleman KG, et al. (1997). J. Biol. Chem. 272 (30): 18869-74.
- Li J, Melvin WS, Tsai MD, Muscarella P (2004). Biochemistry 43 (14): 4394-9.
- Dai K, Kobayashi R, Beach D (1996). J. Biol. Chem. 271 (36): 22030-4.

## DATA

### Western blot analysis (WB)



The cell lysate of HeLa (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CDK4 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.