

Human CDK4 antibody

Catalog Number: ATGA0272

PRODUCT INFORMATION

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

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

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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

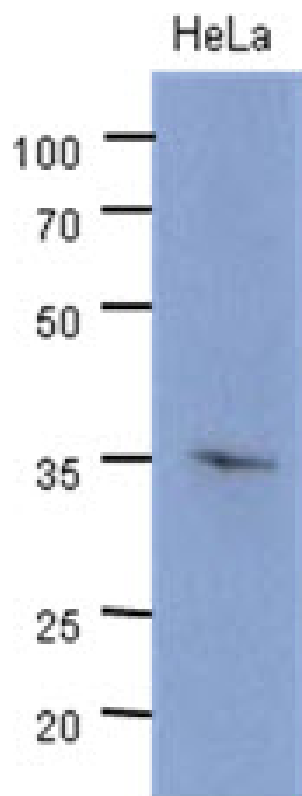
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Li J, Melvin WS, Tsai MD, Muscarella P (2004). *Biochemistry* 43 (14): 4394-9.

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.