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

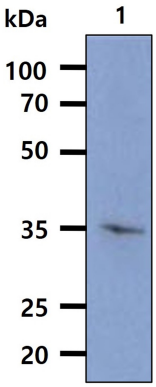
Cyclin-dependent kinase 4, also known as CDK4, belongs to the cyclin-dependent kinases (CDK) family. CDKs are a family of protein kinases first discovered for their role in regulating the cell cycle. They are also involved in regulating transcription, mRNA processing, and the differentiation of nerve 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

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 lysates(40ug) were 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.
Lane 1.: HeLa cell lysate