

Monoclonal anti-human CDK4 antibody (clone AT6D10)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0272

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

NCBI Accession No.: NP_000066

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human CDK4 mAb, clone AT6D10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CDK4 protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:500.

Application: ELISA, WB

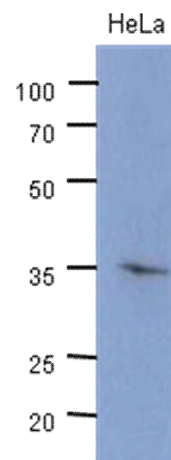
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Western blot analysis

The cell lysate of HeLa (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.



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.

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