

Anti-Cdk4 Antibody [5-C3-G3-R] - BSA and Azide free

HA610102



Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 34 kDa
Clone number:	5-C3-G3-R

Description: Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdks). Cdk proteins work in concert with the cyclins to phosphorylate key substrates involved in each phase of cell cycle progression. Another family of proteins, Cdk inhibitors, also plays a role in regulating the cell cycle by binding to cyclin-Cdk complexes and modulating their activity. Several Cdk proteins have been identified, including Cdk2-Cdk8, PCTAIRE-1-PCTAIRE-3, PITALRE and PITSLRE. 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 upregulates Cdk4 activity, whereas binding to the Cdk inhibitor p16 downregulates Cdk4 activity. Activation of the Cdk4-cyclin complexes requires phosphorylation on a single threonyl residue of Cdk4, catalyzed by a Cdk-activating protein (CAK).

Immunogen: Recombinant protein within human Cdk4 aa 80-303/303.

Positive control: A549 cell lysate, 293T cell lysate, HeLa cell lysate, MCF7 cell lysate, K-562 cell lysate.

Subcellular location: Cytoplasm, Nucleus, Nucleus membrane.

Database links: SwissProt: P11802 Human | P30285 Mouse

Recommended Dilutions:
WB 1:1,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

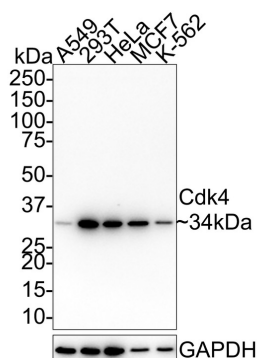
Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of Cdk4 on different lysates with Mouse anti-Cdk4 antibody (HA610102) at 1/1,000 dilution.



Lane 1: A549 cell lysate
 Lane 2: 293T cell lysate
 Lane 3: HeLa cell lysate
 Lane 4: MCF7 cell lysate
 Lane 5: K-562 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 34 kDa

Observed band size: 34 kDa

Exposure time: 17 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA610102) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Wang Z et al. Migratory localization of cyclin D2-Cdk4 complex suggests a spatial regulation of the G1-S transition. *Cell Struct Funct* 33:171-183 (2008).
2. Bockstaele L et al. Differential regulation of cyclin-dependent kinase 4 (CDK4) and CDK6, evidence that CDK4 might not be activated by CDK7, and design of a CDK6 activating mutation. *Mol Cell Biol* 29:4188-4200 (2009).

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