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Anti-CDK4 Antibody
Mouse Monoclonal Antibody
Catalog # AP53463

Specification

Anti-CDK4 Antibody - Product Information

Application	**WB**
Primary Accession	P11802
Other Accession	NM_000075.2
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Immunogen	**Purified recombinant human CDK4 protein expressed in E.coli.**
Purification	**Affinity purified**
Calculated MW	**34kDa KDa**

Anti-CDK4 Antibody - Additional Information

Gene ID 1019

Other Names
Cdk4;cdk4;CDK4protein;CDK4_HUMAN;Celldivisionkinase4;Celldivisionproteinkinase4;CMM3;CMM3;Crk3;Cyclindependentkinase4;Cyclin-dependentkinase4;Melanomacutaneousmalignant3;MGC14458;p34cdk4;PSKJ3;PSK-J3.

Dilution
WB~~1:500

Format
Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-CDK4 Antibody - Protein Information

Name CDK4

Function
Ser/Thr-kinase component of cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complexes and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic

signals. Also phosphorylates SMAD3 in a cell-cycle-dependent manner and represses its transcriptional activity. Component of the ternary complex, cyclin D/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

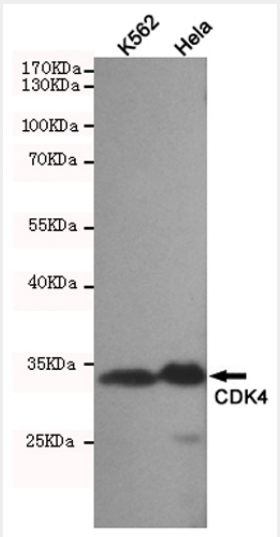
Cellular Location
Cytoplasm. Nucleus. Nucleus membrane. Note=Cytoplasmic when non-complexed Forms a cyclin D-CDK4 complex in the cytoplasm as cells progress through G(1) phase. The complex accumulates on the nuclear membrane and enters the nucleus on transition from G(1) to S phase. Also present in nucleoli and heterochromatin lumps. Colocalizes with RB1 after release into the nucleus.

Anti-CDK4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CDK4 Antibody - Images



Western blot detection of CDK4 in Hela and K562 cell lysates using CDK4 mouse mAb (1:500 diluted).Predicted band size:34KDa.Observed band size:34KDa.

Anti-CDK4 Antibody - Background

Ser/Thr-kinase component of cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the