Product Name: CDK4 Mouse Monoclonal Antibody
Catalog #: AMM82684
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ELISA,FC
Reactivity	Human, Mouse, Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	33.7kda

Antigen Information

Gene Name	CDK4
Alternative Names	CMM3; PSK-J3
Gene ID	1019.0
SwissProt ID	P11802
Immunogen	Purified recombinant fragment of human CDK4 (AA: 77-303) expressed in E. Coli.

Background

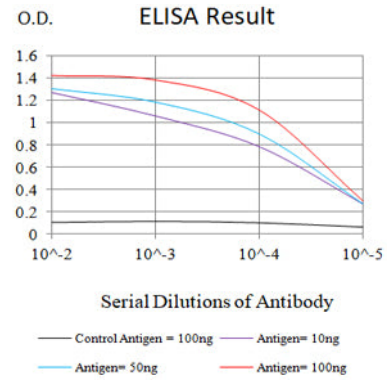
The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of S. cerevisiae cdc28 and S. pombe cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory

subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported.

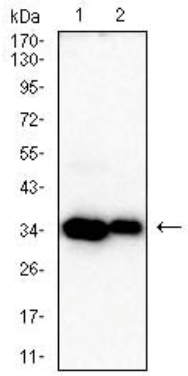
Research Area

PI3K-Akt signaling pathway

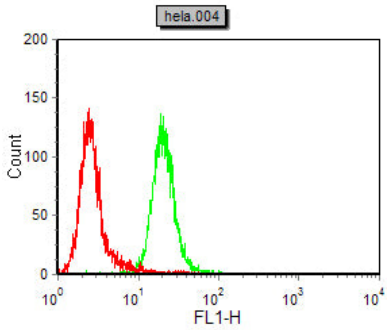
Image Data



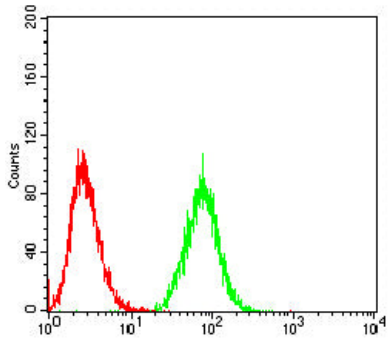
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



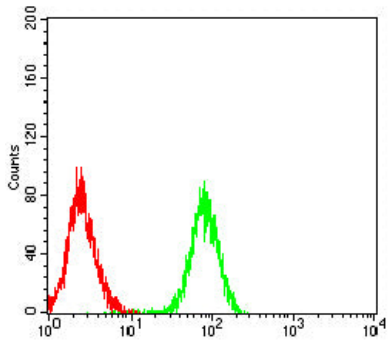
Western blot analysis using CDK4 mouse mAb against COS-7 (1), and NIH/3T3 (2) cell lysate.



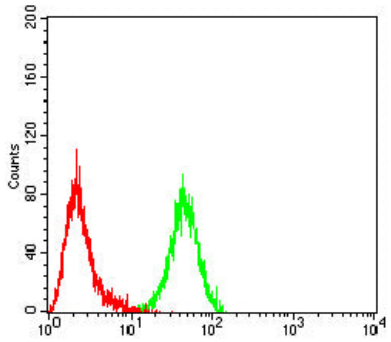
Flow cytometric analysis of Hela cells using CDK4 mouse mAb (green) and negative control (red).



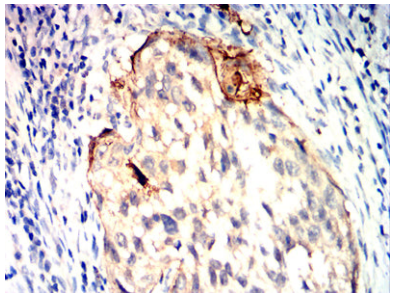
Flow cytometric analysis of HepG2 cells using CDK4 mouse mAb (green) and negative control (red).



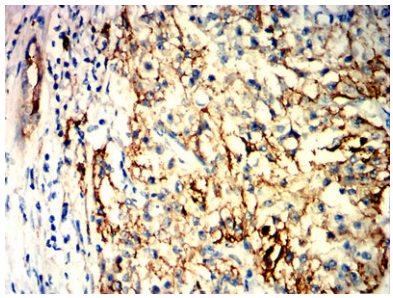
Flow cytometric analysis of Raji cells using CDK4 mouse mAb (green) and negative control (red).



Flow cytometric analysis of THP-1 cells using CDK4 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using CDK4 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human kidney cancer tissues using CDK4 mouse mAb with DAB staining.