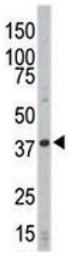
CDK4 Antibody (F50477)

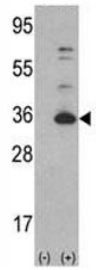
Catalog No.	Formulation	Size
F50477-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50477-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

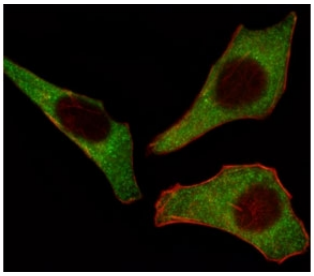
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P11802
Localization	Nuclear and cytoplasmic
Applications	Immunofluorescence : 1:10-1:50 Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100 Flow Cytometry : 1:10-1:50
Limitations	This CDK4 antibody is available for research use only.



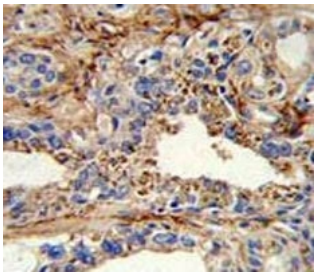
Western blot analysis of CDK4 antibody and HL-60 cell lysate. Predicted molecular weight ~34 kDa.



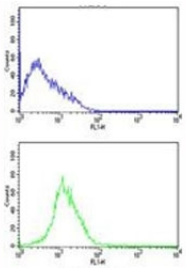
Western blot analysis of CDK4 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CDK4 gene (2).



Fluorescent image of HeLa cells stained with CDK4 antibody at 1:25. CDK4 immunoreactivity is localized to the cytoplasm.



IHC analysis of FFPE human prostate carcinoma with CDK4 antibody



CDK4 antibody flow cytometric analysis of HL-60 cells (bottom histogram) compared to a negative control (top histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

CDK4 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 the gene have been reported.

Application Notes

Titration of the CDK4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 273-305 from the human protein was used as the immunogen for this CDK4 antibody.

Storage

Aliquot the CDK4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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