



Catalog: OM275146

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CDK4 Antibody

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☐ 100ug

Product profile

Product name	CDK4 Antibody
Antibody Type	Primary Antibodies
Product description	CDK4 is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of <i>S. cerevisiae</i> cdc28 and <i>S. pombe</i> 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. ¹⁾ Mori, N., et al., Int. J. Hematol. 77(3):259-262 (2003).
Immunogen	This CDK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 273-305 amino acids from the C-terminal region of human CDK4.

Key Feature

Clonality	Polyclonal
Isotype	Ig
Host Species	Rabbit
Tested Applications	FACS ,IF ,IHC-P ,WB
Species Reactivity	Human
Concentration	1 mg/ml

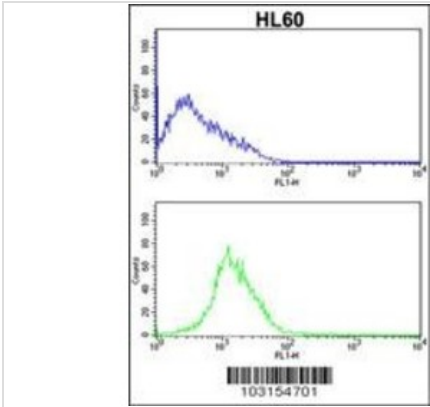
Target Information

Gene Symbol	CDK4
Alternative Names	Cyclin-dependent kinase 4, Cell division protein kinase 4, PSK-J3, CDK4
Molecular Weight(MW)	34 kDa

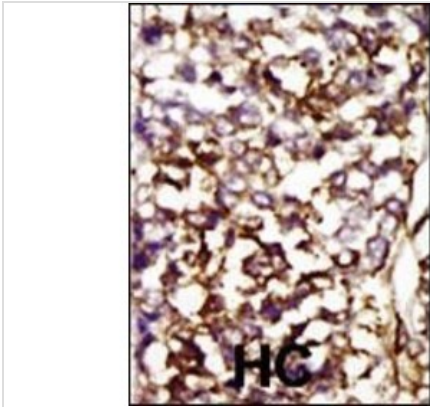
Database Links

Entrez Gene	1019
Protein Accession	P11802

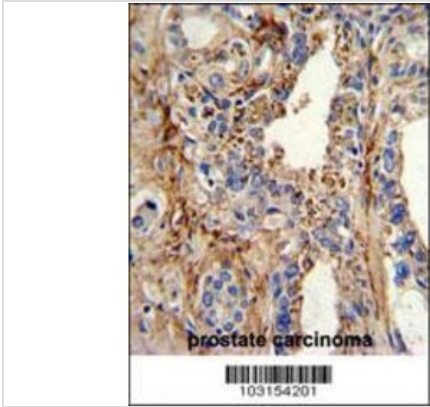
Application



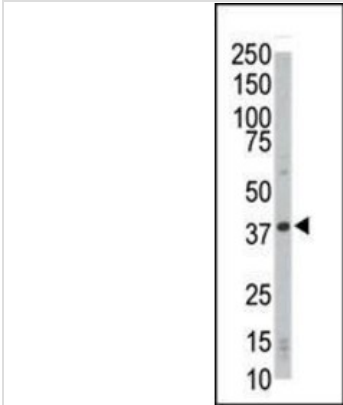
Application
Flow cytometric analysis of HL60 cells (bottom histogram) compared to a negative control cell (top histogram).FIT C-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Application
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. BC = breast carcinoma; HC = hepatocarcinoma.

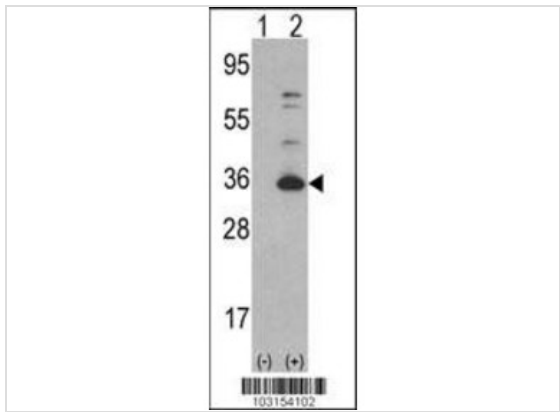


Application
Formalin-fixed and paraffin-embedded human prostate carcinoma with CDK4 Antibody , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.

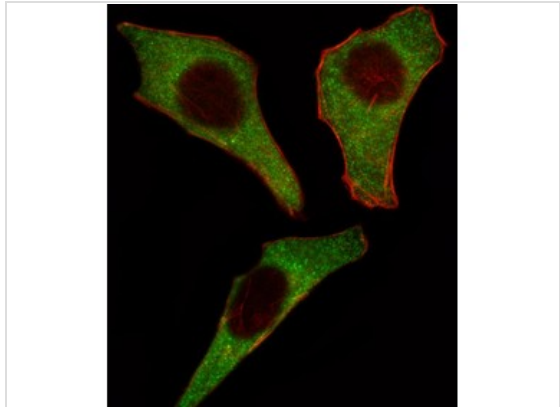


Application
Western blot analysis of anti-CDK4 Pab in HL-60 cell lysate

Application



Western blot analysis of CDK4 using rabbit polyclonal CDK4 Antibody using 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CDK4 gene (Lane 2).



Application

Fluorescent image of HeLa cell stained with CDK4 Antibody .HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with CDK4 primary antibody (1:25). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/m

Application Notes

For IF starting dilution is: 1:10~50 For WB starting dilution is: 1:1000 For IHC-P starting dilution is: 1:50~100 For FACS starting dilution is: 1:10~50:

Additional Information

Form	Liquid
Storage Instructions	Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Storage Buffer	Supplied in PBS with 0.09% (W/V) sodium azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

OmnimAbs.com

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 This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt