

## Basic Information

<b>Product Name</b>	Anti-CDK2 Antibody (Clone#6D5B5)	
<b>Gene Name</b>	CDK2	
<b>Source</b>	Mouse	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG2b	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	E.coli-derived human Cdk2 recombinant protein (Position: E81-L298). Human Cdk2 shares 98.6% amino acid (aa) sequence identity with rat Cdk2.	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	protein G purified.	
<b>Observed MW</b>	30-34 kDa	
<b>Dilution Ratios</b>	Western blot (WB): Immunohistochemistry (IHC): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	1:500-2000 1:50-400

## Storage

12 months from date of receipt, -20°C as supplied.

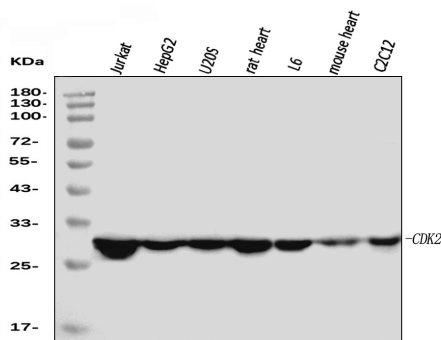
## Background Information

CDK2, Cyclin-Dependent Kinase2, is also known as P33. The CDK2 protein was highly homologous to p34(CDC2) kinase and more significantly homologous to Xenopus Eg1 kinase, suggesting that CDK2 is the human homolog of Eg1. The CDK2 gene is mapped to 12q13, the same region to which the CDK4 gene maps. Human cyclin A binds independently to 2 kinases, p34(cdc2) or p33. In adenovirus-transformed cells, the viral E1A oncoprotein seems to associate with p33/cyclin A but not with p34(cdc2)/cyclin A. The gene for p33 shares 65% sequence identity with p34(cdc2). P33(cdk2) plays a unique role in cell cycle regulation of vertebrate cells.

## Reference

Anti-CDK2 Antibody (Clone#6D5B5)被引用在6文献中。

## Selected Validation Data



Western blot analysis of CDK2 using anti-CDK2 antibody (M00166-4). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Jurkat whole cell lysates,

Lane 2: HepG2 whole cell lysates,

Lane 3: U2OS whole cell lysates,

Lane 4: rat heart tissue lysates,

Lane 5: L6 whole cell lysates,

Lane 6: mouse heart tissue lysates,

Lane 7: C2C12 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with mouse anti-CDK2 antigen

affinity purified monoclonal antibody (M00166-4) at a dilution of

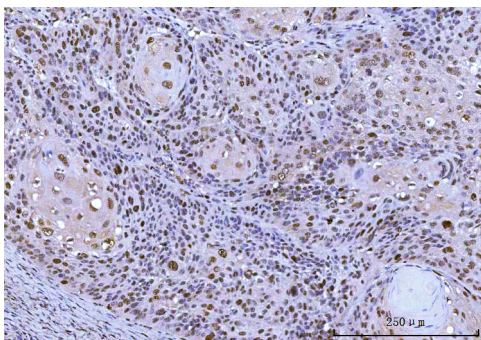
1:1000 and probed with a goat anti-mouse IgG-HRP secondary

antibody (Catalog # BA1050). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was

detected for CDK2 at approximately 30-34 kDa. The expected band

size for CDK2 is at 34 kDa.



IHC analysis of CDK2 using anti-CDK2 antibody (M00166-4).

CDK2 was detected in a paraffin-embedded section of human

Laryngeal squamous cell carcinoma tissue. Biotinylated goat anti-mouse

IgG was used as secondary antibody. The tissue section was

incubated with mouse anti-CDK2 Antibody (M00166-4) at a dilution

of 1:200 and developed using Streptavidin-Biotin-Complex (SABC)

(Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet

## Anti-CDK2 Antibody (Clone#6D5B5)

Catalog Number: **M00166-4**

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