



**Mouse (monoclonal)  
Anti-cdk4  
Unconjugated  
PRODUCT ANALYSIS SHEET**

<b>Catalog Number:</b>	AHZ0202
<b>Lot Number:</b>	See product label
<b>Quantity/Volume:</b>	100 µg/0.5 mL
<b>Clone Number:</b>	DCS-31
<b>Isotype:</b>	IgG1 (mouse)
<b>Form of Antibody:</b>	Purified immunoglobulin in 10mM phosphate buffered saline, pH 7.4, with 0.2% bovine serum albumin.
<b>Preservation:</b>	0.09% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
<b>Purification:</b>	Purified from ascites by Protein G affinity chromatography.
<b>Immunogen:</b>	Purified recombinant cdk4 protein.
<b>Specificity:</b>	This antibody recognizes a protein of 34 kDa, identified as cyclin-dependent kinase-4 (cdk4, also known as p34 <sup>cdk4</sup> ). Cyclin-dependent kinases (cdk) are the catalytic subunits of the cyclin/cdk complexes, which phosphorylate substrates on threonine/serine residues. Cdk4 associates with the D-type cyclins and is important in the progression of cells from the G <sub>1</sub> -phase to the S-phase of the cell cycle. This antibody does not cross-react with other members of the cdk family.
<b>Species Reactivity:</b>	Human, mouse, and rat cdk4 protein. Other species were not tested.
<b>Applications:</b>	This antibody is suitable for use in immunoprecipitation (co-precipitates cyclin D; unbound cdk), Western blotting, immunofluorescence.
<b>Suggested Working Dilutions:</b>	For immunoprecipitation, use 2µg/mg of protein lysate; for Western blotting, 1-2 µg/mL is recommended; and for immunohistochemistry.
<b>Recommended Positive Control:</b>	MAD109, LS174T, or PC12 cells.
<b>Storage:</b>	Store at 2-8°C.
<b>Expiration Date:</b>	Expires one year from date of receipt when stored as instructed.
<b>References:</b>	Depoortere, F., <i>et al.</i> (1998) A requirement for cyclin D3-cyclin-dependent kinase (cdk)-4 assembly in the cyclic adenosine monophosphate-dependent proliferation of thymocytes. <i>The Journal of Cell Biology</i> 140(6):1427-1439. Jadayel, D.M., <i>et al.</i> (1997) Potential role for concurrent abnormalities of the cyclin D1, p16 <sup>CDKN2</sup> and p15 <sup>CDKN2B</sup> genes in certain B cell non-Hodgkin's lymphomas. Functional studies in a cell line (Granta 519). <i>Leukemia</i> 11:64-72.

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## CDK4 Monoclonal Antibody, Mouse (DCS-31)

(Novex®)

### Description

This purified mouse anti-CDK4 monoclonal antibody (mAb) recognizes cyclin-dependent kinase-4 protein. CDK4 associates with the D-type cyclins and is important in the progression of cells from the G1-phase to the S-phase of the cell cycle. Mouse anti-CDK4 mAb does not cross-react with other members of the CDK family. Mouse anti-CDK4 mAb is suitable for use in applications such as western blotting, immunoprecipitation, and immunofluorescence.

**Catalog Number**

**AHZ0202**

**Size**

**100 µg**

**List Price**

**CZK 8.250,00**

### Antibody Specifications:

- **Applications:** Validated applications for mouse anti-CDK4 monoclonal antibody are western blotting, immunoprecipitation and immunofluorescence.
- **Host Species and Isotype:** The host species and isotype of the anti-CDK4 monoclonal antibody is mouse IgG1.
- **Clone ID of Monoclonal Antibody (mAb):** The mouse anti-CDK4 monoclonal antibody clone is DCS-31.
- **Reactivity:** Detects human, mouse, and rat CDK4 protein.
- **Product Size:** Mouse anti-CDK4 monoclonal antibody is available in a 100 µg pack size.

This antibody recognizes a protein of 34 kDa, identified as cyclin-dependent kinase-4 (cdk4, also known as p34cdk4). Cyclin-dependent kinases (cdk) are the catalytic subunits of the cyclin/cdk complexes, which phosphorylate substrates on threonine/serine residues. Cdk4 associates with the D-type cyclins and is important in the progression of cells from the G1-phase to the S-phase of the cell cycle. This antibody does not cross-react with other members of the cdk family.

### Specifications

#### General Specifications

<b>Reactivity:</b>	Rat, Mouse, Human
<b>Validated Application:</b>	Immunohistochemistry, Immunofluorescence, Kinase Assay, Western Blot, Co-Immunoprecipitation
<b>Host:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	DCS-31
<b>Target Gene:</b>	cdk4
<b>Gene ID:</b>	1019
<b>Label or Dye:</b>	Unconjugated
<b>Purification:</b>	Purified
<b>Product Size:</b>	100 µg
<b>Shipping Condition:</b>	Approved for shipment on Wet or Dry Ice
<b>Regulatory Statement:</b>	For Research Use Only. Not

#### Documents

##### Manuals & Protocols

[AHZ0202](#)

for use in diagnostic  
procedures.

#### Material Safety Data Sheets (MSDS)

[AHZ0202](#)

#### Certificates of Analysis (COA)

#### Additional Information

#### Citations & References (3)

- [MDM2 and CDK4 immunohistochemical coexpression in high-grade osteosarcoma: correlation with a de differentiated subtype.](#)

Authors Yoshida A, Ushiku T, Motoi T, Beppu Y, Fukayama M, Tsuda H, Shibata T,  
Journal Am J Surg Pathol (2012) 36:423-431  
Product IHC (1:200), formalin-fixed, paraffin-embedded human osteosarcomas  
Usage ID:

PN131781

[Suppressor of cytokine signaling \(SOCS\)-1 is expressed in human prostate cancer and exerts growth-inhibitory function through down-regulation of cyclins and cyclin-dependent kinases.](#)

Authors Neuwirt H, Pühr M, Santer FR, Susani M, Doppler W, Marcias G, Rauch V, Brugger M,  
Hobisch A, Kenner L, Culig Z  
Journal Am J Pathol 2009 (174):1921-1930  
ID: PN129407

[Reproducibility of MDM2 and CDK4 staining in soft tissue tumors.](#)

Authors Binh MB, Garau XS, Guillou L, Aurias A, Coindre JM  
Journal Am J Clin Pathol (2006) 125:693-697  
Product IHC (MDM2,1:50-1:100; CDK4,1:100-1:200), FFPE, tissue microarrays and 4 µm sections  
Usage of human soft tissue tumors  
ID: PN129400

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