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C8218 Sigma-Aldrich.

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Monoclonal Anti-Cdk4 antibody produced in mouse

clone DCS-31, ascites fluid

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Select a Size

0.5 ML
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C8218-.5ML

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Available to ship on September 19, 2025 Details

A recombinant, preservative-free antibody is available for your target. Try ZRB1588

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About This Item

MDL number:	MFCD00282839
UNSPSC Code:	12352203
NACRES:	NA.41

Key Documents

SDS | COA | COO | Specification Sheet

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Sigma-Aldrich
SAB5700917
Anti- CDK4 antibody produced in rabbit

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Sigma-Aldrich
SAB2500663
Anti-MYB/C-MYB antibody produced in...

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PROPERTIES

biological source	mouse
Quality Level	**200**
conjugate	unconjugated
antibody form	ascites fluid
antibody product type	primary antibodies
clone	DCS-31, monoclonal
mol wt	antigen 33 kDa
contains	15 mM sodium azide
species reactivity	rat, mouse, human
technique(s)	immunocytochemistry: suitable immunoprecipitation (IP): suitable microarray: suitable western blot: 1:1,000 using a cultured human tumor cell line extract
isotype	IgG2a
UniProt accession no.	**P11802**
shipped in	dry ice
storage temp.	−20°C
target post-translational modification	unmodified
Gene Information	human ... **CDK4(1019)** mouse ... **Cdk4(12567)** rat ... **Cdk4(94201)**

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Sigma-Aldrich **C8218** Monoclonal Anti-Cdk4 antibody produced in...	Sigma-Aldrich **C7089** Monoclonal Anti-Cdk7/CAK antibody...
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antibody form ascites fluid	**antibody form** ascites fluid
species reactivity rat, mouse, human	**species reactivity** human
biological source mouse	**biological source** mouse
clone DCS-31, monoclonal	**clone** MO-1.1, monoclonal
conjugate unconjugated	**conjugate** unconjugated
Gene Information human ... CDK4(1019) mouse ... Cdk4(12567) rat ... Cdk4(94201)	**Gene Information** human ... CDK7(1022)

DESCRIPTION

General description

Cdk4 exists, in part, as a multi-protein complex with a D-type cyclin, proliferating cell nuclear antigen (PCNA) and a protein inhibitor, $p21^{Cip1}$. Cdk4 associates separately with p16, particularly in cells lacking a functional retinoblastoma protein.

Monoclonal Anti-Cdk4 (mouse IgG2a isotype) is derived from the DCS-31 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Cyclin-dependent kinase 4 is localized in human chromosome 12q14.1.

Immunogen

recombinant human Cdk4 protein

Application

Monoclonal Anti-Cdk4 antibody was used in:

- immunoprecipitation of human melanoma cell line.
- immunofluorescence of fibrosarcoma cells.
- western blot analysis
- immunofluorescence[1]
- immunohistochemistry[2]

Biochem/physiol Actions

In association with cyclins, cyclin-dependent kinases (CDKs) forms active kinase complexes which is responsible for regulating cell cycle progression in eukaryotic cells. Within the complexes, the CDKs serves a catalytic protein kinase activity. This catalytic activity is regulated by two mechanisms: protein phosphorylation and association of regulatory subunits.

The antibody reacts specifically with Cdk4 and does not recognize other Cdk types.

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Comparable Product

ZRB1588

Anti-Cdk4 Antibody, clone 1E19 ZooMAb® Rabbit Monoclonal, recombinant, expressed in HEK 293 cells

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SAFETY INFORMATION

Storage Class Code	WGK	Flash Point(F)	Flash Point(C)
10 - Combustible liquids	WGK 3	Not applicable	Not applicable

DOCUMENTATION

SDS Specification Sheet

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PEER REVIEWED PAPERS

Drosha regulates hMSCs cell cycle progression through a miRNA independent mechanism.

Adam Z Oskowitz et al.
The international journal of biochemistry & cell biology, 43(11), 1563-1572 (2011-07-29)

Recently we demonstrated that the miRNA regulate human mesenchymal stem cells (hMSCs) differentiation. To determine the role of the miRNA pathway in hMSCs proliferation, Drosha and Dicer knockdown hMSCs were generated using a lentiviral based tetracycline inducible shRNA. hMSCs with

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HMGA2 is the partner of MDM2 in well-differentiated and dedifferentiated liposarcomas whereas CDK4 belongs to a distinct inconsistent amplicon

Italiano A, et al.
International Journal of Cancer. Journal International Du Cancer, 122(10), 2233-2241 (2008)

Hexamethylene bisacetamide inhibits malignant phenotype in T-ALL cell lines.

V Cecchinato et al.
Leukemia research, 32(5), 791-797 (2007-10-30)

T acute lymphoblastic leukemia cell lines treated with hexamethylene bisacetamide (HMBA) undergo a delay in cell cycle progression and increase susceptibility to apoptosis, although they never overcome the differentiation block. In accordance with changes in cell cycle and apoptosis, transitory

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Human cyclins A and B1 are differentially located in the cell and undergo cell cycle-dependent nuclear transport.

J Pines et al.
The Journal of cell biology, 115(1), 1-17 (1991-10-01)

We have used immunofluorescence staining to study the subcellular distribution of cyclin A and B1 during the somatic cell cycle. In both primary human fibroblasts and in epithelial tumor cells, we find that cyclin A is predominantly nuclear from S

The melanoma-associated 24 base pair duplication in p16INK4a is functionally impaired.

Therese M Becker et al.
International journal of cancer, 117(4), 569-573 (2005-06-10)

Melanoma-associated germline mutations affecting the tumor suppressor and cyclin-dependent kinase (CDK) inhibitor, CDKN2A/p16INK4a, have been identified in over 100 melanoma-prone families worldwide. To predict the melanoma risk for carriers of specific mutations, mutant p16INK4a can be tested in biochemical and

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esiRNA Knockdown Efficiency Tested by Western Blotting

Quantitative and qualitative western blotting to validate knockdown by esiRNA.

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