Mouse (monoclonal) Anti-cdk4 Unconjugated
PRODUCT ANALYSIS SHEET

Catalog Number:	AHZ0202
Lot Number:	See product label
Quantity/Volume:	100 µg/0.5 mL
Clone Number:	DCS-31
Isotype:	IgG1 (mouse)
Form of Antibody:	Purified immunoglobulin in 10mM phosphate buffered saline, pH 7.4, with 0.2% bovine serum albumin.
Preservation:	0.09% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification:	Purified from ascites by Protein G affinity chromatography.
Immunogen:	Purified recombinant cdk4 protein.
Specificity:	This antibody recognizes a protein of 34 kDa, identified as cyclin-dependent kinase-4 (cdk4, also known as $p34^{cdk4}$). 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_1-phase to the S-phase of the cell cycle. This antibody does not cross-react with other members of the cdk family.
Species Reactivity:	Human, mouse, and rat cdk4 protein. Other species were not tested.
Applications:	This antibody is suitable for use in immunoprecipitation (co-precipitates cyclin D; unbound cdk), Western blotting, immunofluorescence.
Suggested Working Dilutions:	For immunoprecipitation, use 2µg/mg of protein lysate; for Western blotting, 1-2 µg/mL is recommended; and for immunohistochemistry.
Recommended Positive Control:	MAD109, LS174T, or PC12 cells.
Storage:	Store at 2-8ºC.
Expiration Date:	Expires one year from date of receipt when stored as instructed.

References:

Depoortere, F., *et al.* (1998) A requirement for cyclin D3-cyclin-dependent kinase (cdk)-4 assembly in the cyclic adenosine monophosphate-dependent proliferation of thyrocytes. The Journal of Cell Biology 140(6):1427-1439.

Jadayel, D.M., *et al.* (1997) Potential role for concurrent abnormalities of the cyclin D1, $p16^{CDKN2}$ and $p15^{CDKN2B}$ genes in certain B cell non-Hodgkin's lymphomas. Functional studies in a cell line (Granta 519). Leukemia 11:64-72.

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