



Mouse (monoclonal) Anti-cdk2 Unconjugated

PRODUCT ANALYSIS SHEET

Catalog Number:	AHZ0142
Lot Number:	See product label
Expiration Date:	See product label
Quantity/Volume:	100 µg/0.5 mL
Clone Number:	2B6
Isotype:	IgG2b (mouse)
Form of Antibody:	Purified immunoglobulin in 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 A affinity chromatography.
Immunogen:	Purified recombinant human cdk2 protein.
Myeloma/Fusion Partners:	Produced by the fusion between BALB/c splenocytes and mouse myeloma p3-NS-1/Ag4-1 (NS1) cells.
Specificity:	This monoclonal antibody recognizes a protein of 33 kDa, identified as cyclin-dependent kinase-2 (cdk2). Cyclin-dependent kinases (cdk) are the catalytic subunits of the cyclin/cdk complexes, which phosphorylate substrates on threonine/serine residues. Cdk2 interacts with cyclin D1, D3 and E, as well as cyclin A. Cyclin E/cdk2 kinase is active in G ₁ - and S-phase of the cell cycle and is important for progression of cells from G ₁ to S. Cyclin A/cdk2 levels are maximal at the S/G ₂ -phase transition and both are found associated with DNA in the initiation complex during replication. Rb is a substrate for cyclin E/cdk2 and cyclin A/cdk2 <i>in vivo</i> . This antibody does not cross-react with other members of the cdk family.
Species Reactivity:	Human, mouse, and rat cdk2 protein. Other species were not tested.
Applications:	This antibody is suitable for use in immunoprecipitation (co-precipitates associated proteins), Western blotting, and immunohistochemistry with cryostat sections and paraffin embedded sections. Use of this antibody with paraffin embedded sections requires boiling the sections in 1 mM EDTA, pH 8.0 for 10-20 minutes followed by cooling at room temperature for 20 minutes.
Suggested Working Dilutions:	For immunoprecipitation, use 10 µL/mg of protein lysate; and for Western blotting 1 µg/mL with 2 hour incubation at room temperature is recommended. The recommended concentration for immunohistochemistry is 2-4 µg/mL. The optimal concentration should be determined for each specific application.

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(Rev 02/10) DCC-10-0254

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





Recommended Positive Control: HeLa, 293, VA13, IMR90, Jurkat, and WI-38 cells; thymus, tonsil or reactive lymph node.

Storage: Store at 2-8°C.

References: Akiyama, T., T. Yoshida, T. Tsujita, M. Shimizu, T. Mizukami, M. Okabe, and S. Akinaga (1997) G1 phase accumulation induced by UCN-01 is associated with dephosphorylation of Rb and CDK2 proteins as well as induction of CDK inhibitor p21/Cip1/WAF1/Sdi1 in p53-mutated human epidermoid carcinoma A431 cells. *Cancer Res.* 57(8):1495-1501.

Bresnahan, W.A., E.A. Thompson, and T. Albrecht (1997) Human cytomegalovirus infection results in altered Cdk2 subcellular localization. *J. Gen. Virol.* 78(Pt 8):1993-1997.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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