



Mouse (monoclonal) Anti-p27^{Kip1} (Mitotic Inhibitor/Suppressor Protein) Unconjugated

PRODUCT ANALYSIS SHEET

Catalog Number:	AHZ0452
Lot Number:	See product label
Expiration Date:	See product label.
Quantity/Volume:	100 µg/0.5 mL
Clone Number:	DCS-72.F6
Isotype:	IgG1 / kappa (mouse)
Form of Antibody:	Purified immunoglobulin in 10 mM phosphate buffered saline, pH 7.4, with 0.2% bovine serum albumin.
Preservation:	15 mM 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 chromatography.
Immunogen:	Mouse recombinant p27 ^{Kip1} protein.
Myeloma/Fusion Partners:	Produced by fusion between BALB/c splenocytes and mouse myeloma NS-2 cells.
Specificity:	This monoclonal antibody recognizes a protein of 27 kDa, identified as p27 ^{Kip1} , a cell cycle regulatory mitotic inhibitor. A candidate tumor suppressor gene, p27 ^{Kip1} functions as a negative regulator of G ₁ progression and has also been suggested to function as a possible mediator of TGF-β-induced G ₁ arrest. Highly specific with no cross-reactivity with other closely related mitotic inhibitors, DCS-72.F6 co-precipitates cdk4 in complex with p27 ^{Kip1} . Its epitope is mapped between aa 83-197 of p27.
Species Reactivity:	Human, monkey, dog, mouse and rat p27 ^{Kip1} . Does not react with cow. Other species were not tested.
Applications:	This antibody is highly recommended for use in Western blotting, immunoprecipitation (co-precipitates cdk4), immunofluorescence, and immunohistology (frozen and formalin/methacarn or paraffin-embedded sections). Staining of formalin/paraffin sections requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes, followed by cooling at RT for 20 minutes. This antibody also can be used for flow cytometry.
Suggested Working Dilutions:	For Western blotting, use 1:200-1:400; for immunoprecipitation, use 10 µL/mg of protein lysate; for immunohistochemistry, use 1:50-1:100. The optimal antibody concentration should be determined for each specific application.
Recommended Positive Control:	HeLa cells, MAD109 cells, Ls174T cells, breast carcinoma, or colon carcinoma.

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Storage: Store at 2-8°C.

References: Ajchenbaum, F., K. Ando, J.A. DeCaprio, and J.D. Griffin (1993) Independent regulation of human D-type cyclin gene expression during G1 phase in primary human T lymphocytes. *J. Biol. Chem.* 268:4113-4119.

Bullrich, F., T.K. MacLachlan, N. Sang, T. Druck, M.L. Veronese, S.L. Allen, N. Chiorazzi, A. Koff, K. Heubner, C.M. Croce, et al. (1995) Chromosomal mapping of members of the *cdc2* family of protein kinases, *cdk3*, *cdk6*, *PISSLRE*, and *PITALRE*, and a *cdk* inhibitor, *p27Kip1*, to regions involved in human cancer. *Cancer Res.* 55(6):1199-1205.

Chan, F.K., J. Zhang, L. Cheng, D.N. Shapiro, and A. Winoto (1995) Identification of human and mouse *p19*, a novel *CDK4* and *CDK6* inhibitor with homology to *p16ink4*. *Mol. Cell. Biol.* 15(5):2682-2688.

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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