Mouse (monoclonal) Anti-Cyclin D2 Unconjugated

PRODUCT ANALYSIS SHEET

Catalog Number:	AHF0112
Lot Number:	See product label
Quantity/Volume:	100 µg/0.5 mL
Clone Number:	DCS-3.1
Isotype:	IgG2a (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 chromatography.
Immunogen:	Purified histidine-tagged human recombinant full length cyclin D2 protein.
Myeloma/Fusion Partners:	Produced by fusion between female BALB/c splenocytes and mouse myeloma NS-2 cells.
Specificity:	This monoclonal antibody recognizes a protein of 34 kDa, identified as cyclin D2. Cyclins are regulatory subunits of the cyclin-dependent kinases (cdk), which control transition at different specific phases of the cell cycle. In mammalian cells, cyclin D2 plays a critical role in G_1 to S transition and is a putative proto-oncogene. Cyclin D2 can phosphorylate pRB when associated with cdk4 and/or cdk6. The DCS-3.1 monoclonal antibody is highly specific to cyclin D2 and shows no cross-reactivity with cyclin D1 or D3.
Species Reactivity:	Human, mouse and rat cyclin D2. Other species were not tested.
Applications:	This monoclonal antibody is suitable for use in Western blotting, immunocytochemistry, flow cytometry and immunofluorescence. This antibody is highly recommended for use in immunoprecipitation (inhibits cdk4/cdk6 activity) and biological blockade studies. Not suitable for immunohistology.
Suggested Working Dilutions:	For immunoprecipitation, use 10 µL/mg of protein lysate; and for Western blotting, 1:250-1:500 dilution is recommended.
Recommended Positive Control:	U-2-OS, RD, C82, Bristol-8, or Lo-Vo36 cells are positive for cyclin D2. Please note that the following cell lines are negative for cyclin D2: T47D, ZR75, SKBR3, MCF-7, MDA468, BT-20, HBL100, BT5549, HeLa, Saos2, and HT29 cells.
Storage:	Store at 2-8ºC.
Expiration Date:	Expires one year from date of receipt when stored as instructed.
References:	Bartkova, J., *et al.* (1995) Abnormal patterns of D-type cyclin expression and G_1 regulation in human head and neck cancer. Cancer Research 55:949-956. Lukas, J., *et al.* (1995) Cyclin D2 is a moderately oscillating nucleoprotein required for G1 phase progression in specific cell types. Oncogene 10(11): 2125-2134.

For research use only. CAUTION: Not intended for human or animal therapeutic or diagnostic use.

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Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com

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