

Product: Anti-Cyclin D1 Protein
Catalog #: 03-65153
Amount: 1 ml

CATEGORY: Mouse monoclonal
CLONE DETERMINATION: DCS-6
IMMUNOGLOBULIN CLASS: IgG2a
IMMUNOGEN: Human recombinant full-length cyclin D1 protein
FORM: Hybridoma culture supernatant
ANTIGEN RECOGNIZED IN SPECIES (tested so far): human, monkey, rat, mouse
SPECIAL NOTE: DCS-6 reacts specifically with cyclin D1 protein present predominantly in G1 phase of cell cycle; it does not crossreact with D2 or D3 cyclins (the closest relatives within the cyclin family); mab DCS-6 is especially useful in tumor diagnosis: it can be used as fast method to identify cases with 11q13 amplifications. Cyclin D1 gene is identical with BCL-1 and the PRAD-1 oncogene and is part of the chromosome 11q13 amplicon which is amplified in several common tumor types like breast, lung, esophagus, urinary bladder and head and neck carcinoma.

APPLICATION: Suitable for immunostaining of frozen and paraffin embedded (however, only sections fixed in methacarn, ethanol or phenol formalin, does only weakly react with routine formal-fixed paraffin sections) tissue and cultured cells
Immunoblotting (Western)
Immunoprecipitation
Microinjection/in vitro neutralization of cyclin D1 function

POLYPEPTIDE REACTING: DISORDERS SPECIFICALLY DETECTED: MR 36,000 polypeptide (cyclin D1 polypeptide of human cells)
Several common tumor types like breast, lung, esophagus, urinary bladder and head and neck carcinoma

WORKING DILUTION: Ready to Use for immunohistochemistry
INCUBATION TIME: 1 hour at room temperature
STORAGE: 2-8°C for immediate use, or at -20°C (aliquot)

REFERENCES:

Lukas, J. ET AL. (1994) *Oncogene* **4**: 707-718.
Bartkova, J. ET AL. (1994) *J. Pathol.* **172**: 237-245.
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Mueller, H. et al. (1994) *Proc. Natl. Acad. Sci. USA*, **91**:2945.
Lukas, J. et al. . (1994) *J. Cell Biol* **125** (3): 625-638.

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