

## Cyclin D1 (Clone ZM197) Mouse Monoclonal Antibody

**Specificity:** Human. Others not tested

**Immunogen:** Recombinant full-length human CCND1 protein

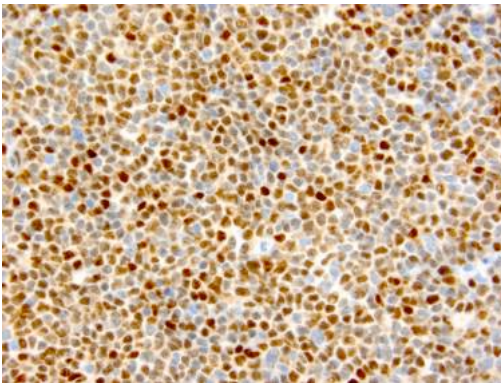
**Ig Class:** Rabbit IgG1/ $\kappa$

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Mantle cell lymphoma.. *Cellular Localization:* Nuclear. *Intended Use:* In vitro diagnosis (IVD).

**Description:** Recognizes a protein of 36kDa, identified as cyclin D1. Cyclin D1, one of the key cell cycle regulators, is a putative proto-oncogene overexpressed in a wide variety of human neoplasms. This antibody neutralizes the activity of cyclin D1 *in vivo*. About 60% of mantle cell lymphomas (MCL) contain a t(11; 14)(q13; q32) translocation resulting in over-expression of cyclin D1. This antibody is useful in identifying mantle cell lymphomas (cyclin D1 positive) from CLL/SLL and follicular lymphomas (cyclin D1 negative). Occasionally, hairy cell leukemia and plasma cell myeloma weakly express Cyclin D1.

**Supplied As:** Purified antibody with 0.2% BSA and 15mM sodium azide.



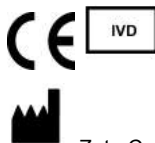
### References:

1. Bartkova J, et al. *Cancer Res.* 1995; 55:949-56.
2. Hankin RC, et al. *Arch Pathol Lab Med.* 1999; 123:1182-8.

*Formalin-fixed, paraffin-embedded human mantle cell lymphoma stained with anti-Cyclin D1 antibody using peroxidase-conjugate and DAB chromogen. Note the nuclear staining of lymphoma cells*

Cat. #ZZ2515 (1.0 ml)

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