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## MDM2 (Clone SMP14)

### Mouse Monoclonal Antibody

**Specificity:** Human. Others-not known

**Immunogen:** Amino acids 154-167 of MDM2 of human origin

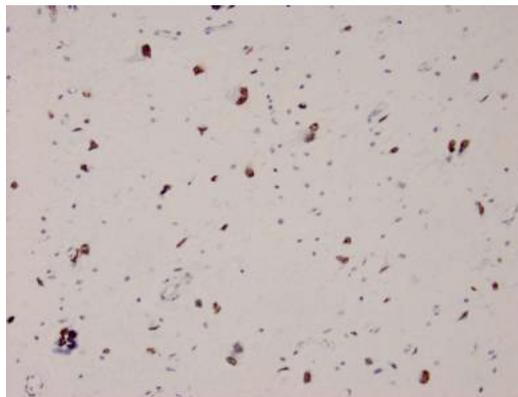
**Ig Class:** IgG1

**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:* 1:50-100; *Positive Control:* Liposarcoma. *Cellular Localization:* Nuclear. *Intended Use:* In vireo diagnosis (IVD).

**Description:** p53 is the most commonly mutated gene in human cancer identified to date. Expression of p53 leads to inhibition of cell growth by preventing progression of cells from G1 to S phase of the cell cycle. Most importantly, p53 functions to cause arrest of cells in the G1 phase of the cell cycle following any exposure of cells to DNA-damaging agents. The MDM2 (murine double minute-2) protein was initially identified as an oncogene in a murine transformation system. MDM2 functions to bind p53 and block p53-mediated transactivation of cotransfected reporter constructs. The MDM2 gene is amplified in a high percentage of human sarcomas that retain wt p53 and tumor cells that overexpress MDM2 can tolerate high levels of p53 expression. These findings argue that MDM2 overexpression represents at least one mechanism by which p53 function can be abrogated during tumorigenesis. MDM2 is useful in differentiating liposarcoma from other types of sarcomas.

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

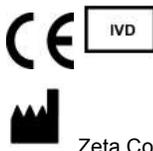


*Formalin-Fixed, paraffin-embedded human atypical lipomatous tumor stained with anti-MDM2 antibody using peroxidase-conjugate and DAB chromogen. Note the nuclear staining of tumor cells*

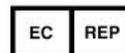
**Cat. #Z2189 (1.0 ml)**

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