**Mouse Anti-MDM2 [SMP14]: MC0548, MC0548RTU7**

**Intended Use:** For Research Use Only

**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.

**Specifications**
- **Clone:** SMP14
- **Source:** Mouse
- **Isotype:** IgG1
- **Reactivity:** Human, mouse, rat
- **Localization:** Nucleus
- **Formulation:** Purified antibody in PBS pH7.4, containing BSA and <= 0.09% sodium azide (NaN3)
- **Storage:** Store at 2°-8°C
- **Applications:** IHC, ICC/IF, IP, WB

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>MDM2 Concentrated</td>
<td>MC0548</td>
<td>1 ml</td>
</tr>
<tr>
<td>MDM2 Prediluted</td>
<td>MC0548RTU7</td>
<td>7 ml</td>
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**IHC Procedure**
- **Positive Control Tissue:** Liposarcoma
- **Concentrated Dilution:** 25-100
- **Pretreatment:** Citrate pH6.0 or EDTA pH 8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
- **Incubation Time and Temp:** 30-60 minutes @ RT
- **Detection:** Refer to the detection system manual

*Result should be confirmed by an established diagnostic procedure.*

**References:**