**Intended Use:** For Research Use Only

**Description:** p53 acts as both a tumor-suppressor and transcription factor that, upon activation by DNA damage and other cellular stress signals, leads to the transcription of genes triggering cell-cycle arrest, apoptosis, and DNA repair. p53 is overexpressed in over 50% of human cancers. Positive staining of p53 detected by immunohistochemistry has been observed in colon cancer, breast cancer, lung cancer, prostate cancer and ovary cancer.

**Specifications:**
- **Clone:** DO-7
- **Source:** Mouse
- **Isotype:** IgG2b/κ
- **Reactivity:** Human, cow, monkey
- **Localization:** Nucleus
- **Formulation:** Tissue culture supernatant containing < 0.2% BSA and < 0.05% sodium azide (NaN3)
- **Storage:** Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles

**Applications:** IHC, Flow Cyt, ICC/IF, IP, WB

**Package:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>p53 Concentrated</td>
<td>MC0219</td>
<td>1 ml</td>
</tr>
<tr>
<td>p53 Prediluted</td>
<td>MC0219RTU7</td>
<td>7 ml</td>
</tr>
</tbody>
</table>

**IHC Procedure**
- **Positive Control Tissue:** Breast cancer, colon cancer
- **Concentrated Dilution:** 50-200
- **Pretreatment:** Citrate pH6.0 or EDTA pH8.0, 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:**

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