**Rabbit Anti-PHH3 [Polyclonal]: RC0305**

**Intended Use:** For Research Use Only

**Description:** Phosphohistone-H3 (PHH3) is a core histone protein, which together with other histones forms the major protein constituents of the chromatin in eukaryotic cells. In mammalian cells, phosphohistone H3 is negligible during interphase but reaches a maximum for chromatin condensation during mitosis. Immunohistochemical studies showed anti-PHH3 detected specifically the core protein histone H3 only when phosphorylated at serine 10 or serine 28. Studies have also revealed no phosphorylation on the histone H3 during apoptosis. Therefore, PHH3 can serve as a mitotic marker to separate mitotic figures from apoptotic bodies and karyorrhectic debris, which may be a very useful tool in diagnosis of tumor grades, especially in CNS, skin, Gyn., Soft tissue, and GIST.

**Specifications**
- Clone: Polyclonal
- Source: Rabbit
- Isotype: IgG
- Reactivity: Human
- Localization: Nucleus
- Formulation: Antibody in PBS pH 7.4, containing 0.2% BSA and <= 0.09% sodium azide (NaN3)
- Storage: Store at 2 - 8°C
- Applications: IHC

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHH3 Polyclonal Concentrated</td>
<td>RC0305</td>
<td>1 ml</td>
</tr>
<tr>
<td>PHH3 Polyclonal Prediluted</td>
<td>RC0305RTU7</td>
<td>7 ml</td>
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**IHC Procedure**
- **Positive Control Tissue:** Breast cancer, tonsil
- **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:**

FFPE human tonsil stained with anti-PHH3 using DAB

Doc. 100-RC0305
Rev. B