

**Rabbit Anti-OCT4A [MD37R]: RM0340**

**Intended Use:** For Research Use Only

**Description:** Oct-4 (POU5F1) is a transcription factor highly expressed in undifferentiated embryonic stem cells and embryonic germ cells. A network of key factors that includes Oct-4, Nanog, and Sox2 is necessary for the maintenance of pluripotent potential, and downregulation of Oct-4 has been shown to trigger cell differentiation. Research studies have demonstrated that Oct-4 is a useful germ cell tumor marker (4). Oct-4 exists as two splice variants, Oct-4A and Oct-4B. Recent studies have suggested that the Oct-4A isoform has the ability to confer and sustain pluripotency, while Oct-4B may exist in some somatic, non-pluripotent cells.

**Specifications**

Clone: MD37R  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human  
Localization: Nucleus  
Formulation: Purified antibody in 0.2% BSA and 15mM sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles  
Applications: IHC, Flow C, CHIP, ICC/IF, WB  
Package:

| Description        | Catalog No. | Size |
|--------------------|-------------|------|
| OCT4A Concentrated | RM0340      | 1 ml |

**IHC Procedure\***

Positive Control Tissue: Seminoma and dysgerminoma of ovary tissues  
Concentrated Dilution: 50-100  
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.