

# Anti-OCT-4 Antibody

## RE6048



|                            |   |
|----------------------------|---|
| <b>Product Type:</b>       | Recombinant Rabbit monoclonal IgG, primary antibodies |
| <b>Species reactivity:</b> | Human   |
| <b>Applications:</b>       | WB, IHC-P, FC, IP                                     |
| <b>Molecular Wt:</b>       | 45kDa   |

**Description:** Octamer transcription factor-4 (Oct-4) is a homeodomain transcription factor in the POU transcription factor family that specifically binds to the octamer motif (5'-ATTTTCAT-3') (1). It is critical for early embryogenesis and for embryonic stem cell pluripotency, expressed mainly in the developing brain (1). OCT4 is a master regulator that affects the fate of pluripotent stem cells and germ cell precursors (2). For instance, the downregulation of Oct-4 triggers embryonic stem cell differentiation, simultaneous with gastrulation (3). It is also used as a marker for germ cell tumor diagnosis (4).

**Immunogen:** peptide

**Positive control:** HeLa, Seminoma, NCCIT.

**Subcellular location:** Cytoplasm, Nucleus

**Database links:** SwissProt: Q01860 Human

**Recommended Dilutions:**

|              |          |
|--------------|----------|
| <b>WB</b>    | 1:1,000  |
| <b>IP</b>    | 1:10-100 |
| <b>IHC-P</b> | 1:100    |
| <b>FC</b>    | 1:10-100 |

**Storage Buffer:** 1\*TBS (pH7.4), 0.5% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at -20 °C. Stable for 12 months from date of receipt

**Purity:** Tissue culture supernatant

Hangzhou Huaan Biotechnology Co., Ltd.

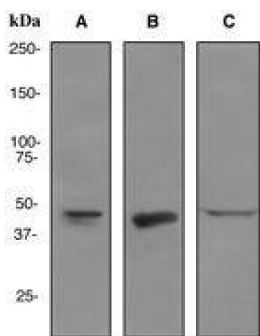
Orders:0086-571-88062880

Technical:0086-571-89986345

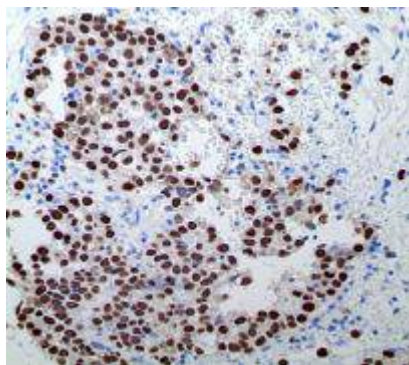
Service mail:support@huabio.cn

 华安生物  
HUABIO  
www.huabio.cn

## Images



**Fig1:** Western blot analysis on (A) Seminoma, (B) NCCIT, and (C) HeLa cell lysates using anti-Oct-4



**Fig2:** Immunohistochemical staining of paraffin-embedded human ovarian dysgerminoma using anti-Oct-4 RabMAb.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. The UniProt Consortium, The Universal Protein Resource (UniProt), *Nucleic Acids Res.* 37:D169-D174(2010).
2. Wei F et al. *J Biol Chem.* 282(29):21551-60, 2007.
3. Pesce et al. *Stem Cells.* 19(4):271-8, 2001.
4. Cheng et al. *J Pathol.* 211(1):1-9, 2007.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn