

## OCT4 monoclonal antibody

Catalog: MB66483

Host: Mouse

Reactivity: Mouse

**BackGround:**

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. 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.

**Product:**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

**Molecular Weight:**

~ 45 kDa

**Swiss-Prot:**

P20263

**Purification&Purity:**

The antibody was purified by immunogen affinity chro-

matography.

**Applications:**

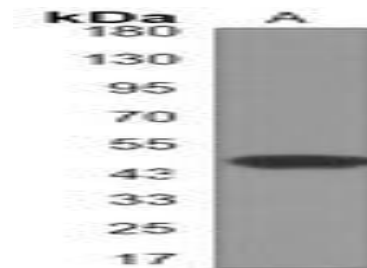
WB (1/500 - 1/1000)

**Storage&Stability:**

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

**Specificity:**

Recognizes endogenous levels of 44838 protein.

**DATA:**

Western blot analysis of 44838 expression in F9 (A) whole cell lysates.

**Note:**

For research use only, not for use in diagnostic procedure.

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