



## OCT-4 Antibody

E81107-3

**Catalog Number:** E81107-3**Quantity:** 100ul**Project ID:**

**Description:** Oct-4 (POU5F1) is a transcription factor expressed in the totipotent and pluripotent stem cells of the pregastrulation embryo. It is also expressed in primordial germ cells and in the female germ line. OCT4 binds to the octamer motif (5'-ATTTGCAT-3') and forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. It is critical for early embryogenesis and for embryonic stem cell pluripotency.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Storage Buffer:** 1\*TBS (pH7.4), 0.5%BSA, 25%Glycerol. Preservative: 0.05% Sodium Azide.

**Product Type:** Rabbit Polyclonal IgG, primary antibodies

**Form:** Liquid

**Purity:** Immunogen affinity purified

**Specificity/Source:** This antibody is produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to a region of OCT4.

**Reactivity:** Human,Mouse

**Applications:** WB: 1:1,000

**Molecular Weight:** 45kDa

**Swiss-Prot No.:** Q01860(human) P20263(mouse)

**Cellular Localization:** Cell nucleus

**Positive control:** NCCIT, F9

**References:** 1. "Formation of pluripotent stem cells in the mammalian embryo depends on the POU transcription factor Oct4. Cell 1998.

"WWP2 promotes degradation of transcription factor OCT4 in human embryonic stem cells." Xu H., Wang W., Li C., Yu H., Yang A., Wang B., Jin Y. Cell Res. 19:561-573(2009)

