



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)

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