



Oct4 Mouse Monoclonal Antibody

E10-30147

Background: This gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic development, especially during early embryogenesis, and it is necessary for embryonic stem cell pluripotency. A translocation of this gene with the Ewing's sarcoma gene, t(6;22)(p21;q12), has been linked to tumor formation. Alternative splicing, as well as usage of alternative translation initiation codons, results in multiple isoforms, one of which initiates at a non-AUG (CUG) start codon. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12. (provided by RefSeq). Tissue specificity: Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.

Catalog Number: E10-30147

Amount: 100µg/100µl

Clone Number: 5F7

Species: Mouse IgG1

MW: 45kDa

Aliases: OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4; MGC22487; POU5F1

Entrez Gene: 5460

Immunogen: Synthesized peptide of human Oct4.

Storage: Store at 4°C, for long term storage, store at -20°C.

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB, ELISA. Not yet tested in other applications.

Application notes: WB: 1/500 - 1/2000,
ELISA: Propose dilution 1/10000.

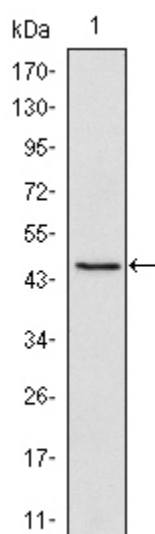


Figure 1: Western blot analysis using Oct4 mouse mAb against NTERA-2 cell lysate (1).

For Research Use Only