



Category: Monoclonal Antibodies
Product Name: Mouse Monoclonal Antibody to Oct4

Catalog Number: MAB-606030147

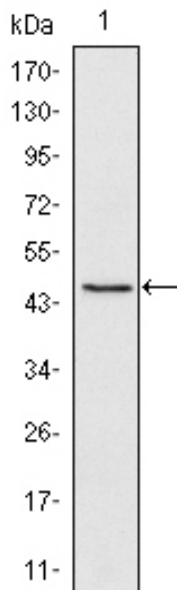


Figure 1: Western blot analysis using Oct4 mouse mAb against NTERA-2 cell lysate (1).

Lot#:
Clone#: 5F7
Host and isotype: Mouse IgG1
Size: 0.1ml
MW: 45kDa
Aliases: OCT3; OCT4; OTF3;
OTF4; OTF-3; Oct-3; Oct-4;
MGC22487; POU5F1
Entrez Gene: 5460
Species reactivity: Human

Description 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.

Immunogen Synthesized peptide of human Oct4.

Application Western Blotting: 1/500 - 1/2000.
ELISA: Propose dilution 1/10000.
Not yet tested in other applications.
Determining optimal working dilutions by titration test.

Formulation Ascitic fluid containing 0.03% sodium azide.

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

Related product References 1. J Biol Chem. 2008 Dec 19;283(51):35825-33.
2. Dev Genes Evol. 2008 Oct;218(10):561-6.
3. Stem Cells. 2008 Sep;26(9):2419-24

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Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com