OCT4 (5F7) Antibody

Subcategory: Mouse Monoclonal Antibody
Cat. No.: 253105
Unit: 0.1 ml

Description:
Oct4 (Octamer-binding transcription factor-4) and Oct-3/4, also known as POU5F1 (POU class 5 homeobox 1), octamerbinding transcription factor-3 (Oct-3, Otf-3), modulates embryonic stem (ES) cell populations by influencing lineage commitment. Oct-3/4 sustains stem-cell self renewal and differentiation pathways. Transcription factors containing the POU homeodomain regulate tissue-specific gene expression in lymphoid and pituitary differentiation and in early mammalian development. Oct-3/4 is capable of inducing rapid proliferation and tumorigenic properties of ES cells through activation of the UTF1 gene. In humans, two Oct-3/4 isoforms contribute to influencing the undifferentiated phenotype of ES cells. Oct-3/4 pseudogenes localizing to human chromosomes 10 and 8 are reported to be transcribed in certain cancer cell lines and tissues.

Isotype: Mouse IgG1
Applications: WB
Species Reactivity: H
Format: Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.
Alternate Names: POU domain, class 5, transcription factor 1; Octamer-binding protein 3; Oct-3; Octamer-binding protein 4; Oct-4; Octamer-binding transcription factor 3; OTF-3; OCT3; OCT4; OTF3; POU5F1
Accession No.: Q01860

Antigen: Purified recombinant fragment of human POU5F1 expressed in E. coli.
Application Notes: WB: 1:500-1:2000;

Storage: Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.