

OCT-4 Mouse monoclonal antibody

Catalog: MB9011

Host: Mouse

Reactivity: Human, mouse

BackGround:

POU5F1 (POU domain, class 5, transcription factor 1), also known as octamer-binding transcription factor-3 (Oct-3, OTF3), octamer-binding transcription factor-4 (Oct-4, Otf-4) and Oct-3/4, 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.

Product:

Mouse IgG1, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 39 kDa

Swiss-Prot:

Q01860

Purification&Purity:

Protein A affinity purified

Applications:

WB: 1:1000-1:5000 ICC: 1:200

Storage&Stability:

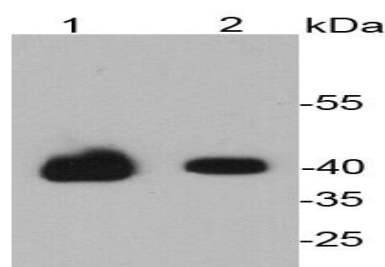
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

This antibody detects endogenous levels of OCT-4 and does not cross-react with related proteins.

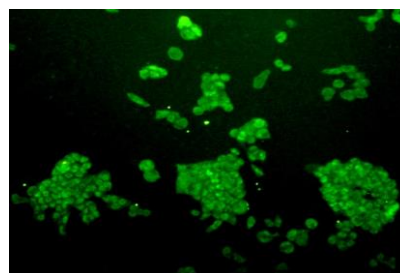
DATA:



Western blot (WB) analysis of OCT-4 Mouse mAb at 1:1000 dilution

Lane1:NCCIT whole cell lysate

Lane2:D3 whole cell lysate



ICC staining of OCT-4 in F9 cells (green). Cells were fixed in para-formaldehyde, permeabilised with 0.25% Triton *100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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