

OCT-4 Monoclonal Antibody

Description

Product type Antibody

Code BT-MCA4034

Host Mouse

 Isotype
 Mouse IgG1

 Size
 100μL, 50μL

Immunogen Purified recombinant fragment of Oct4 (aa193-360) expressed in E. Coli.

Mol wt 38.5kDa

Species reactivity Human

Clonality Monoclonal

Recommended application Others

Concentration N/A
Full name N/A

Synonyms OCT3;OTF3;OTF4;MGC22487;POU5F1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

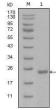
Oct4: octamer-binding transcription factor-4 (Oct-4, Otf-4) and Oct-3/4, also known as POU5F1(POU class 5 homeobox 1), octamerbinding transcription factor-3 (Oct-3, Otf-3), modulates embryonic stem (ES) cell populations by influencing lineage commitment. Entrez Protein NP_002692. Oct-3/4 sustains stem-cell selfrenewal 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.

Recommended Dilution

WB: 1:500 - 1:2000 ELISA: 1:10000

Not yet tested in other applications.

Images



Western blot analysis using Oct4 mouse mAb against recombinant Oct4 protein with Trx tag (1).

Storage

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