NANOG Mouse Monoclonal Antibody

E10-20289

Background: NANOG. Nanog homeobox. Entrez Protein NP_079141. Nanog is a divergent homeodomain protein that directs pluripotency and differentiation of undifferentiated embryonic stem cells. Nanog mRNA is present in pluripotent mouse and human cell lines, and absent from differentiated cells. Human Nanog protein shares 52% overall amino acid identity with the mouse protein and 85% identity in the homeodomain. Human Nanog maps to gene locus 12p13.31, whereas mouse Nanog maps to gene loci 6 F2. Murine embryonic Nanog expression is detected in the inner cell mass of the blastocyst. High levels of human Nanog expression were detected by Northern analysis in the undifferentiated N-Tera embryonal carcinoma cell line.

Catalog Number: E10-20289

Amount: 100µg/100µl

Clone Number: 1E6C4

Species: Mouse IgG1

MW: 35kDa

Aliases: EPA6; FLJ35246; PRO57066; DKFZp434C1418

Entrez Gene: 79923

Immunogen: Purified recombinant fragment of NANOG (aa20-166) expressed in E. Coli.

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

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB ,IF,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB.1/500 - 1/2000. IF.1/200 - 1/1000.ELISA. Propose dilution 1/10000.

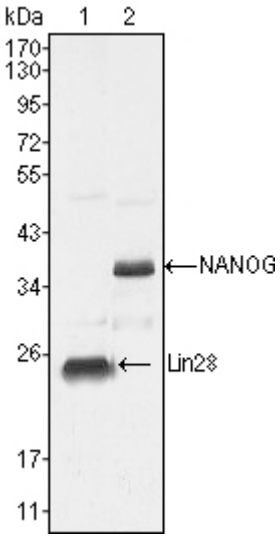

Figure 1. Western blot analysis using NANOG mouse mAb against NTERA-2 cell lysate (2).

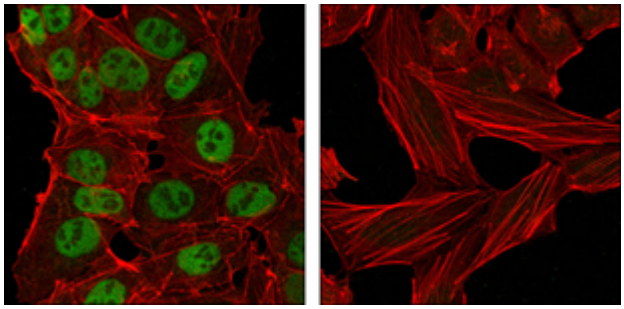

Figure 2. Confocal immunofluorescence analysis of NTERA-2 cells (left) and HeLa cells (right) using Nanog mouse mAb (green). Red. Actin filaments have been labeled with DY-554 phalloidin.

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