

NANOG Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3280
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of NANOG (aa20-166) expressed in E. Coli.
Mol wt	35kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB, ICC
Concentration	N/A
Full name	N/A
Synonyms	NANOG

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

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.

Recommended Dilution

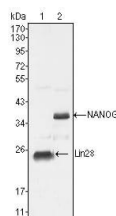
WB: 1:500 - 1:2000

ICC: 1:200 - 1:1000

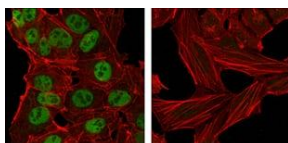
ELISA: 1:10000

Not yet tested in other applications.

Images



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

Storage

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

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