

## NANOG Ab

[Images\(1\)](#)

|               |                 |                       |
|---------------|-----------------|-----------------------|
| Cat.#: BF0323 | Concn.: ~1mg/ml | Mol.Wt.: 35kDa        |
| Size:         | Source: Mouse   | Clonality: Monoclonal |

Application: ELISA 1:10000, WB 1:500-1:2000, IF/ICC 1:200-1:1000  
\*The optimal dilutions should be determined by the end user.

Reactivity: Human

Storage: Mouse IgG1 in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Purification: Affinity-chromatography.

Immunogen: Purified recombinant fragment of human NANOG expressed in E. Coli.

Uniprot: Q9H9S0

Description: 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.

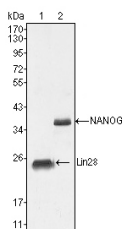


Figure 1: Western blot analysis using NANOG mouse mAb against NTERA-2 cell lysates (2).

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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