

Product Information

Anti-Nanog

produced in rabbit, affinity isolated antibody

Catalog Number **N4413**

Product Description

Anti-Nanog is produced in rabbit using as immunogen a synthetic peptide corresponding to an internal sequence of human Nanog (GeneID 79923). The antibody is affinity-purified.

Anti-Nanog recognizes human Nanog by immunoblotting.

The transcriptional factor Nanog functions in maintaining pluripotency in cooperation with other key genes such as Oct4. Oct4 and Sox2 bind to the Nanog promoter in mouse and human embryonic stem cells. Nanog levels allow stem cells to balance the creation of lineage-committed and undifferentiated cells.

Reagent

Supplied as a solution in phosphate buffered saline, containing 0.02% sodium azide.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to three months. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended.

Product Profile

Immunoblotting: a working dilution of 1:1,000 to 1:2,000 is recommended.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

References

1. Clark, A. T., et al., Human STELLAR, NANOG, and GDF3 genes are expressed in pluripotent cells and map to chromosome 12p13, a hotspot for teratocarcinoma. *Stem Cells* **22**:169-179 (2004).
2. Mitsui, K., et al., The homeoprotein Nanog is required for maintenance of pluripotency in mouse epiblast and ES cells. *Cell* **113**:631-642 (2003).

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