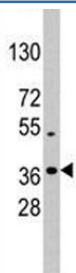


NANOG Antibody (N-Terminal Region) (F44247)

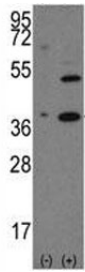
| Catalog No. | Formulation | Size |
|---------------|--|---------|
| F44247-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F44247-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

[Bulk quote request](#)

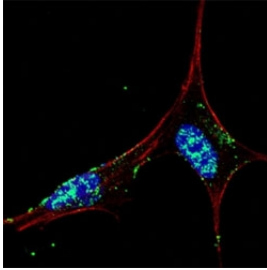
| | |
|-----------------------------|---|
| Availability | 1-3 business days |
| Species Reactivity | Human |
| Predicted Reactivity | Primate |
| Format | Purified |
| Host | Rabbit |
| Clonality | Polyclonal (rabbit origin) |
| Isotype | Rabbit Ig |
| Purity | Purified |
| UniProt | Q9H9S0 |
| Applications | Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50 Flow Cytometry : 1:10-1:50 Immunofluorescence : 1:10-1:50 |
| Limitations | This NANOG antibody is available for research use only. |



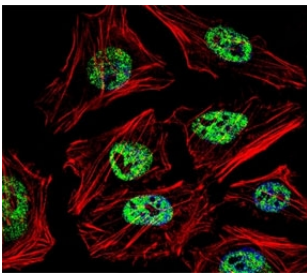
Western blot analysis of NANOG antibody and K562 lysate; Predicted molecular weight: 35-45 kDa.



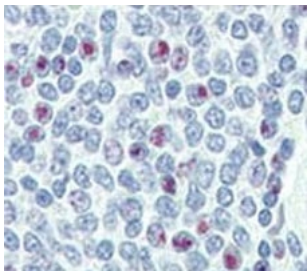
Western blot analysis of NANOG antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the human gene (2). Predicted molecular weight: 35-45 kDa.



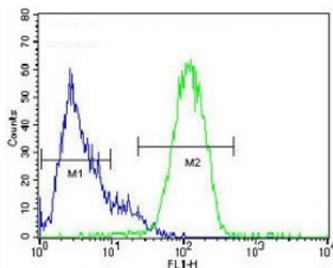
Fluorescent confocal image of SY5Y cells stained with NANOG antibody at 1:50. Immunoreactivity is localized mainly to the nuclei of the cells.



Fluorescent confocal image of HeLa cell stained with NANOG antibody at 1:25. Immunoreactivity is localized to the nucleus.



IHC analysis of FFPE human spleen tissue stained with NANOG antibody



NANOG antibody flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

NANOG is a transcription regulator involved in inner cell mass and embryonic stem (ES) cell proliferation and self-renewal. It imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophoblast lineages. This protein blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes. NANOG acts as a transcriptional activator or repressor. It binds optimally to the DNA consensus sequence 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3'. When overexpressed, this protein promotes cells to enter into S phase and proliferation. [UniProt]

Application Notes

Titration of the NANOG antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 15-49 from the human protein was used as the immunogen for this NANOG antibody.

Storage

Aliquot the NANOG antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.