

Nanog, Rabbit pAb

CATALOG #:	3165-100
AMOUNT:	100 µg
HOST (ISOTYPE):	Rabbit (Ig)
IMMUNOGEN:	This antibody is generated from rabbits immunized with recombinant human Nanog.
SPECIES REACTIVITY:	Human

FORMULATION:

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

STORAGE CONDITIONS:

Maintain refrigerated at 2-8°C for up to 6 months or -20°C for long term storage.

BACKGROUND DESCRIPTION:

NANOG is a transcription regulator involved with inner cell mass and embryonic stem (ES) cell proliferation and self-renewal. It imposes pluripotency on ES cells and prevents their differentiation towards extra-embryonic 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 by optimally binding 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.

BACKGROUND REFERENCES:

1. Kochupurakkal, B.S., Biochem. Biophys. Res. Commun. 365 (4), 846-850 (2008)
2. Freberg, C.T., Mol. Biol. Cell 18 (5), 1543-1553 (2007)

OTHER NAMES:

Homeobox transcription factor Nanog; Homeobox protein NANOG; hNanog.

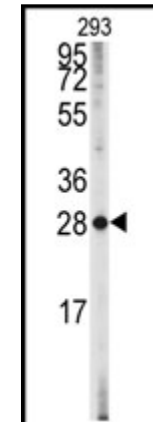
SPECIFICITY:

The antibody detects a ~ 34 kDa band, corresponding to the expected molecular mass of Nanog on immunoblots.

FOR RESEARCH USE ONLY! Not to be used on humans.

APPLICATION:

The antibody can be used for ELISA (0.25 µg/ml), Western blotting (2.5 – 5 µg/ml).



Western blot analysis of anti-Nanog Antibody (Cat.#3165-100) in 293 cell line lysates (35µg/lane). Nanog (arrow) was detected using the purified pAb.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System