

## Polyclonal Antibody to NANOG - Aff - Purified

**Alternate names:** Homeobox protein NANOG

**Catalog No.:** AP01140PU-S

**Quantity:** 50 µg

**Background:** Nanog is a newly identified homeodomain-bearing transcriptional factor. Nanog expression is specific to early embryos and pluripotential stem cells including mouse and human embryonic stem (ES) and embryonic germ (EG) cells. It is a key molecule involved in the signaling pathway for maintaining the capacity for self-renewal and pluripotency, bypassing regulation by the STAT3 pathway. Nanog mRNA is present in pluripotent mouse and human cell lines, and absent from differentiated cells. Nanog-deficient ES cells lose pluripotency and differentiate into extraembryonic endoderm lineage. Thus it is one of the molecular markers suitable for recognizing the undifferentiated state of stem cells in the mouse and human.

NANOG is a new marker for testicular carcinoma in situ and germ cell tumors.

**Uniprot ID:** [Q9H9S0](#)

**NCBI:** [NP\\_079141.2](#)

**GeneID:** [100293888](#)

**Host:** Rabbit

**Immunogen:** Highly pure (> 98%) E.coli derived recombinant Human Nanog

**Format:** **State:** Sterile filtered lyophilized Ig fraction

**Purification:** Affinity Chromatography employing immobilized Human Nanog matrix

**Buffer System:** PBS, pH 7.2

**Reconstitution:** Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml.

**Applications:** **Indirect ELISA:** To detect Human Nanog (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. In conjunction with compatible secondary reagents, it allows the detection of at least 0.2-0.4 ng/well of recombinant Human Nanog.

**Sandwich ELISA:** To detect Human Nanog (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. In conjunction with Biotinylated Anti-Human Nanog (Cat.-No AP01140BT) as a detection antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human Nanog.

**Western blot:** To detect hNanog this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human Nanog is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

**Immunohistochemistry:** This antibody stained formalin-fixed, paraffin-embedded sections of human prostate malignant adenocarcinoma. The recommended concentration is 0.5

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

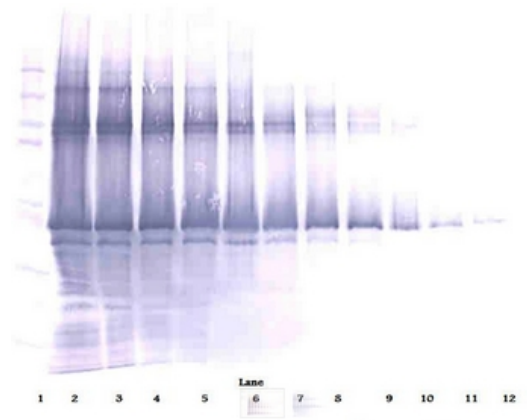
Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

mg/ml with an overnight incubation at 4°C. An alkaline phosphatase-labeled polymer detection system was used with a non-alcohol soluble red chromogen. Heat induced antigen retrieval with a pH 6.0 sodium citrate buffer is recommended. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

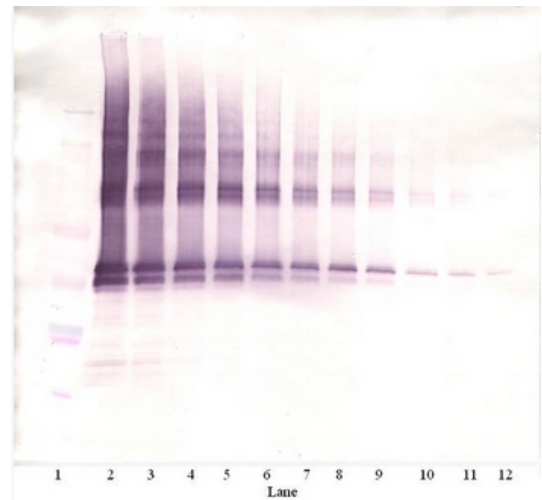
**Specificity:** This antibody detects Human Nanog. Other species not tested.

**Storage:** Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

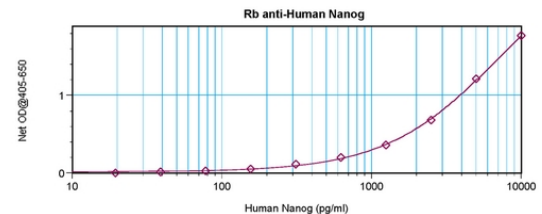
**Pictures:** Western Blot (Reduced) using NANOG Antibody Cat.-No AP01140PU



Western Blot (Unreduced) using NANOG Antibody Cat.-No AP01140PU



Sandwich ELISA using NANOG Antibody Cat.-No AP01140PU



Formalin-Fixed, Paraffin-Embedded  
Sections of human prostate malignant  
adenocarcinoma stained with NANOG  
Antibody Cat.-No AP01140PU

