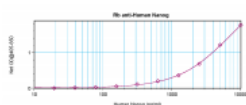


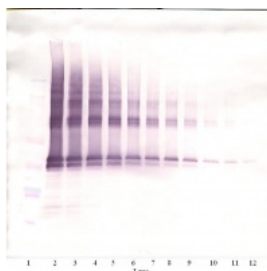


## Nanog Antibody

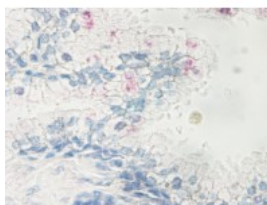
CATALOG NUMBER: 38-108



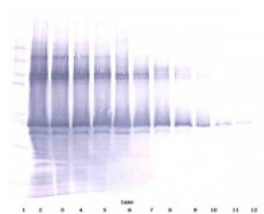
To detect hNanog by sandwich ELISA (using 100  $\mu$ l/well antibody solution) a concentration of 0.5 - 2.0  $\mu$ g/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with ProSci's Biotinylated Anti-Human Nanog (38-104) as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hNanog.



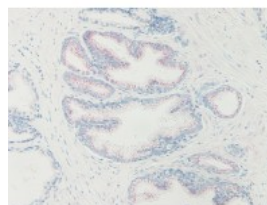
To detect hNanog by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2  $\mu$ g/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hNanog is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.



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



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### Specifications

**SPECIES REACTIVITY:** Human

**TESTED APPLICATIONS:** ELISA, WB

**APPLICATIONS:** ELISA:  
Indirect:

To detect hNanog by indirect ELISA (using 100  $\mu$ L/well antibody solution) a concentration of 0.5 - 2.0  $\mu$ g/mL of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary

reagents, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hNanog.

Sandwich:

To detect hNanog by sandwich ELISA (using 100 uL/well antibody solution) a concentration of 0.5 - 2.0 ug/mL of this antibody is required.

Western Blot:

To detect hNanog by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 ug/mL. Used in conjunction with compatible secondary reagents the detection limit for recombinant hNanog is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

<b>USER NOTE:</b>	Centrifuge vial prior to opening.
<b>IMMUNOGEN:</b>	Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant hNanog. Human Nanog specific antibody was purified by affinity chromatography employing immobilized hNanog matrix.
<b>HOST SPECIES:</b>	Rabbit

#### Properties

<b>PURIFICATION:</b>	Nanog antibody was purified by affinity chromatography employing immobilized Nanog matrix.
<b>PHYSICAL STATE:</b>	Lyophilized
<b>STORAGE CONDITIONS:</b>	Nanog antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C. Avoid repeated freeze-thaw cycles.
<b>CLONALITY:</b>	Polyclonal
<b>CONJUGATE:</b>	Unconjugated

#### Additional Info

<b>ALTERNATE NAMES:</b>	Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog
<b>ACCESSION NO.:</b>	Q9H9S0
<b>PROTEIN GI NO.:</b>	118573073
<b>OFFICIAL SYMBOL:</b>	NANOG
<b>GENE ID:</b>	79923

#### Background

<b>BACKGROUND:</b>	Nanog is a newly identified homeodomain-bearing transcriptional factor. Nanog expression is specific to early embryos and pluripotent 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.
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FOR RESEARCH USE ONLY

December 13, 2016