

## Polyclonal Antibody to NANOG - Biotin

<b>Alternate names:</b>	Homeobox protein NANOG
<b>Catalog No.:</b>	AP01140BT-N
<b>Quantity:</b>	50 µg
<b>Background:</b>	<p>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.</p> <p>NANOG is a new marker for testicular carcinoma in situ and germ cell tumors.</p>
<b>Uniprot ID:</b>	<a href="#">Q9H9S0</a>
<b>NCBI:</b>	<a href="#">NP_079141.2</a>
<b>GeneID:</b>	<a href="#">100293888</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Highly pure (> 98%) E.coli recombinant Human Nanog
<b>Format:</b>	<p><b>State:</b> Sterile filtered lyophilized Ig fraction <b>Purification:</b> Affinity Chromatography <b>Buffer System:</b> PBS, pH 7.2 <b>Label:</b> Biotin <b>Reconstitution:</b> Centrifuge vial prior to opening. Restore in sterile PBS containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.</p>
<b>Applications:</b>	<p><b>Direct ELISA:</b> To detect Human Nanog (using 100 µl/well antibody solution) a concentration of 0.25-1.0 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 hNanog.</p> <p><b>Sandwich ELISA:</b> To detect Human Nanog (using 100 µl/well antibody solution) a concentration of 0.25-1.0 µg/ml of this antibody is required. In conjunction with Polyclonal Anti-Human Nanog (Cat.-No AP01140PU) as a capture antibody, it allows the detection of at least 0.2-0.4 ng/well of recombinant Human Nanog.</p> <p><b>Western blot:</b> 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.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>

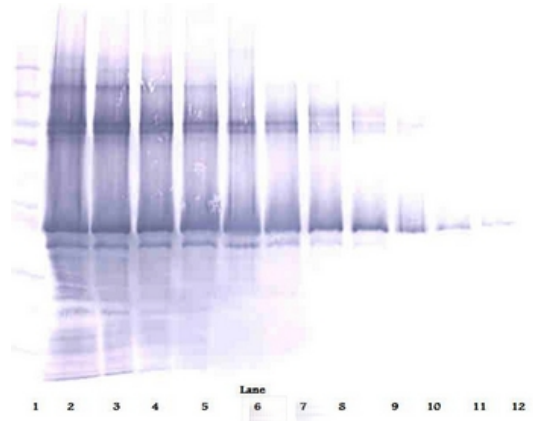
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Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

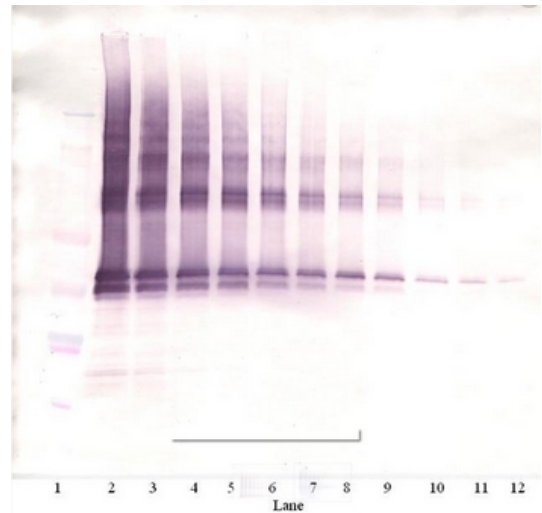
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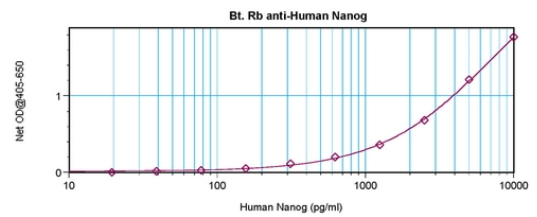
- Specificity:** This antibody recognizes Human Nanog. Other species not tested.
- Storage:** Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
- Pictures:** Western Blot (Reduced) using NANOG Antibody Cat.-No AP01140BT



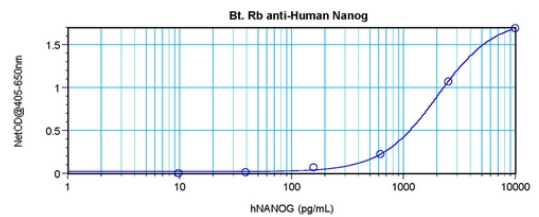
Western Blot (Unreduced) using NANOG Antibody Cat.-No AP01140BT



Sandwich ELISA using NANOG Antibody Cat.-No AP01140BT



Direct ELISA using NANOG Antibody Cat.-No AP01140BT



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