

Product datasheet for **AP01140BT-N**

NANOG Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	Direct ELISA: 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. Sandwich ELISA: 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. 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.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (> 98%) E.coli recombinant Human Nanog
Specificity:	This antibody recognizes Human Nanog. Other species not tested.
Formulation:	PBS, pH 7.2 Label: Biotin State: Sterile filtered lyophilized Ig fraction
Reconstitution Method:	Centrifuge vial prior to opening. Restore in sterile PBS containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography
Conjugation:	Biotin
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.



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Stability: Shelf life: one year from despatch.

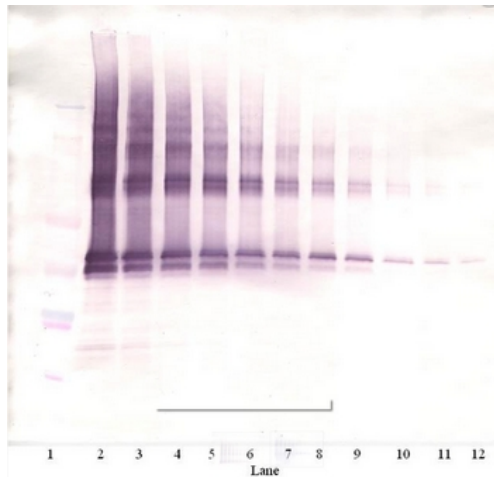
Gene Name: Nanog homeobox

Database Link: [Entrez Gene 79923 Human Q9H9S0](#)

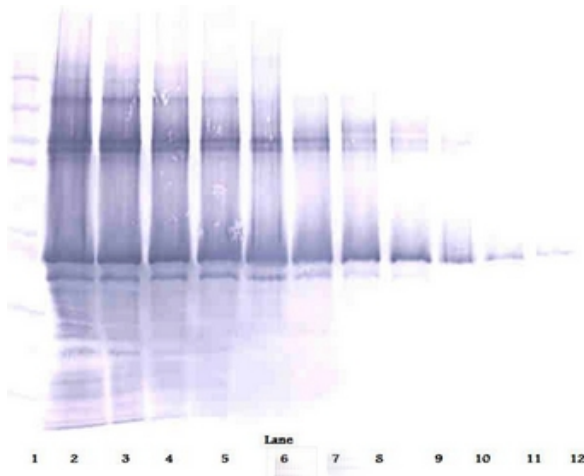
Background: Nanog is a newly identified homeodomain-bearing transcriptional factor. Nanog expression is specific to early embryos and pluripotential stem cells including mouse and human embryonic stem (ES) and embryonic germ (EG) cells. It is a key molecule involved in the signaling pathway for maintaining 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.

Synonyms: FLJ12581; FLJ40451; hNanog

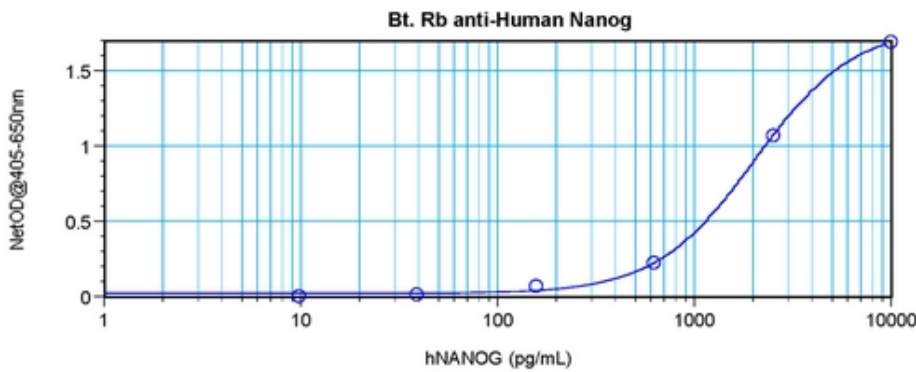
Product images:



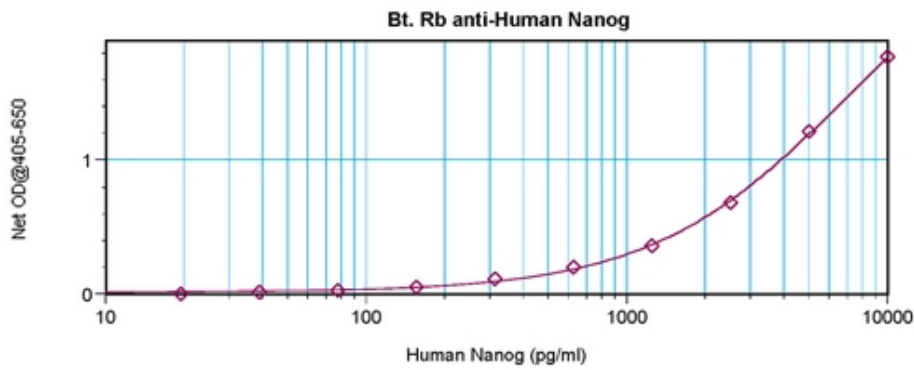
Western Blot (Unreduced) using NANOG Antibody
Cat.-NoAP01140BT



Western Blot (Reduced) using NANOG Antibody Cat.-NoAP01140BT



Direct ELISA using NANOG Antibody Cat.-NoAP01140BT



Sandwich ELISA using NANOG Antibody Cat.-NoAP01140BT