

Product datasheet for **AP01140PU-S**

NANOG Rabbit Polyclonal Antibody

Product data:

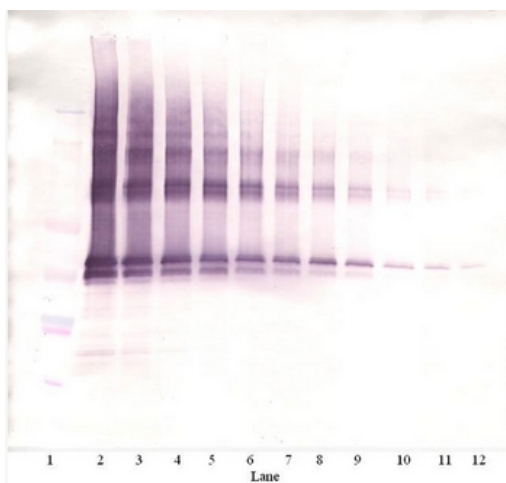
Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<p>Indirect ELISA: To detect Human Nanog (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. In conjunction with compatible secondary reagents, it allows the detection of at least 0.2-0.4 ng/well of recombinant Human Nanog.</p> <p>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.</p> <p>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.</p> <p>Immunohistochemistry: 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.</p>
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (> 98%) E.coli derived, 34.5 kDa recombinant Human Nanog
Specificity:	This antibody detects Human Nanog. Other species not tested.
Formulation:	<p>PBS, pH 7.2 without preservatives.</p> <p>State: Aff - Purified</p> <p>State: Sterile filtered lyophilized Ig fraction</p>
Reconstitution Method:	Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography employing immobilized Human Nanog matrix
Conjugation:	Unconjugated



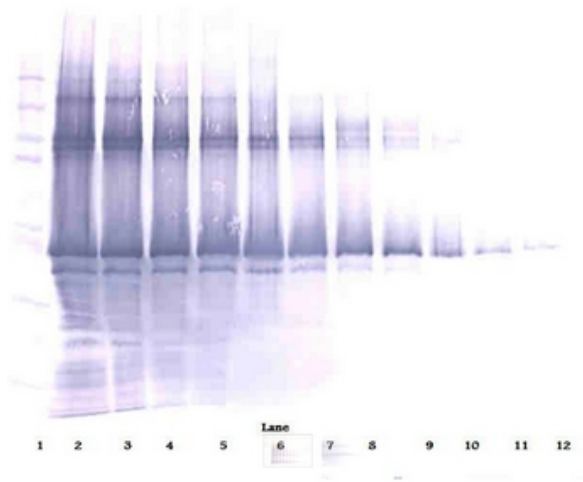
[View online »](#)

Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
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 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. NANOG is a new marker for testicular carcinoma in situ and germ cell tumors.
Synonyms:	FLJ12581; FLJ40451; hNanog

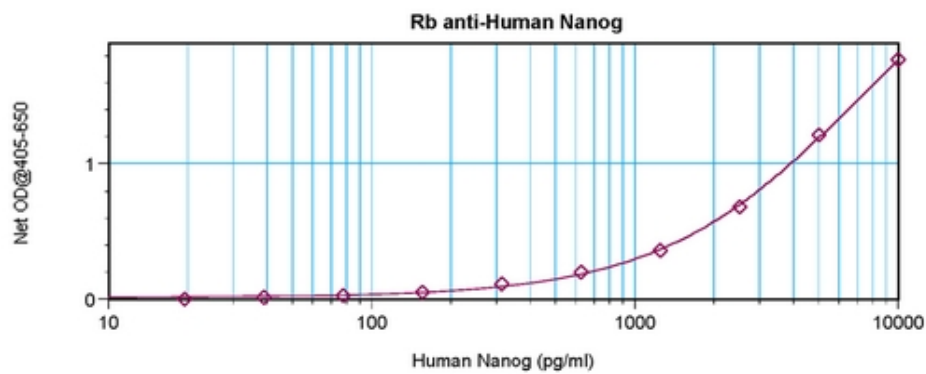
Product images:



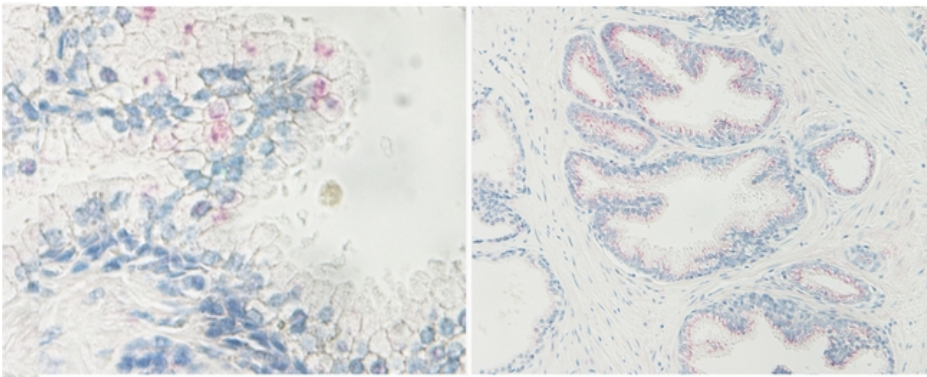
Western Blot (Unreduced) using NANOG Antibody Cat.-NoAP01140PU



Western Blot (Reduced) using NANOG Antibody Cat.-NoAP01140PU



Sandwich ELISA using NANOG Antibody Cat.-NoAP01140PU



Formalin-Fixed, Paraffin-Embedded Sections of human prostate malignant adenocarcinoma stained with NANOG Antibody Cat.-NoAP01140PU