

Goat Anti-NANOG (C Terminus) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1707a**Specification**

Goat Anti-NANOG (C Terminus) Antibody - Product Information

Application	WB, IHC, Pep-ELISA
Primary Accession	O9H9S0
Other Accession	NP_079141 , 79923
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	34620

Goat Anti-NANOG (C Terminus) Antibody - Additional Information**Gene ID** 79923**Other Names**

Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog, NANOG

DilutionWB~~1:1000
IHC~~1:100~500
Pep-ELISA~~N/A**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-NANOG (C Terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-NANOG (C Terminus) Antibody - Protein Information**Name** NANOG**Function**

Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards

extraembryonic endoderm and trophectoderm lineages. Blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes. Acts as a transcriptional activator or repressor. Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3'. Binds to the POU5F1/OCT4 promoter (PubMed:25825768). Able to autorepress its expression in differentiating (ES) cells: binds to its own promoter following interaction with ZNF281/ZFP281, leading to recruitment of the NuRD complex and subsequent repression of expression. When overexpressed, promotes cells to enter into S phase and proliferation.

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:15983365}

Tissue Location

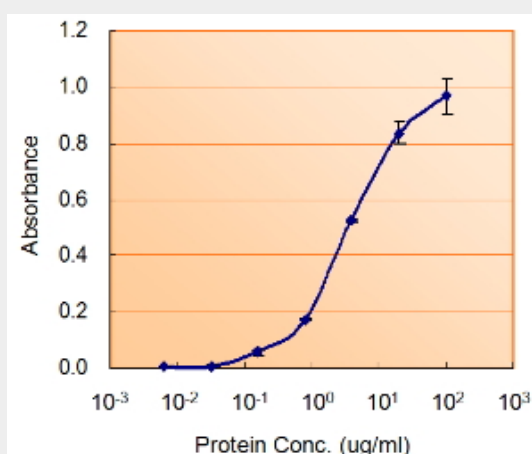
Expressed in testicular carcinoma and derived germ cell tumors (at protein level). Expressed in fetal gonads, ovary and testis. Also expressed in ovary teratocarcinoma cell line and testicular embryonic carcinoma. Not expressed in many somatic organs and oocytes.

Goat Anti-NANOG (C Terminus) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

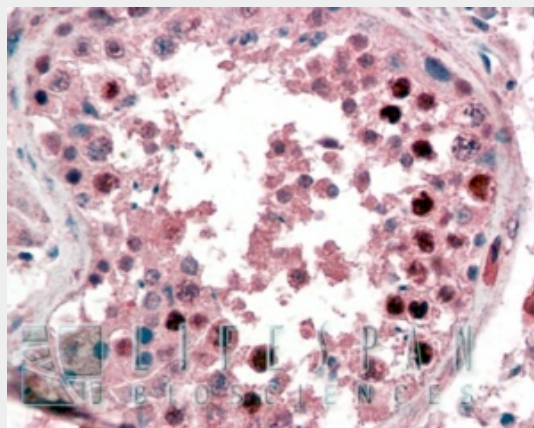
Goat Anti-NANOG (C Terminus) Antibody - Images



AF1707a (5ug/ml) as the reporter with EB002009 as the capture rabbit antibody (5ug/ml).



AF1707a (0.05µg/ml) staining of HeLa (nuclear) cell lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1707a (2µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-NANOG (C Terminus) Antibody - References

- Hedgehog controls neural stem cells through p53-independent regulation of Nanog. Po A, et al. EMBO J, 2010 Aug 4. PMID 20581804.
- NANOG regulates glioma stem cells and is essential in vivo acting in a cross-functional network with GLI1 and p53. Zbinden M, et al. EMBO J, 2010 Aug 4. PMID 20581802.
- A distinct expression pattern in mammalian testes indicates a conserved role for NANOG in spermatogenesis. Kuijk EW, et al. PLoS One, 2010 Jun 7. PMID 20539761.
- Expression profile of the embryonic markers nanog, OCT-4, SSEA-1, SSEA-4, and frizzled-9 receptor in human periodontal ligament mesenchymal stem cells. Trubiani O, et al. J Cell Physiol, 2010 Oct. PMID 20458727.
- Novel candidate cancer genes identified by a large-scale cross-species comparative oncogenomics approach. Mattison J, et al. Cancer Res, 2010 Feb 1. PMID 20103622.