

Rabbit NANOG Polyclonal Antibody | anti-NANOG antibody

NANOG Antibody (Center)

CATALOG # AAA288943	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Bovine, Monkey)	APPLICATIONS Western Blot, ELISA
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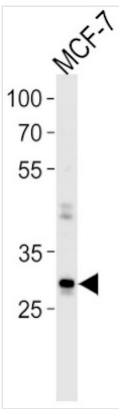
PRODUCT SYNONYMS

NANOG; Polyclonal Antibody; NANOG Antibody (Center); Homeobox protein NANOG; Homeobox transcription factor Nanog; hNanog; anti-NANOG antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Monkey)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This NANOG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 94-123 amino acids from the Central region of human NANOG.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	94-123
Sequence Length	289
Applicable Applications for anti-NANOG antibody	WB (Western Blot), ELISA
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 trophoctoderm 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.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
NANOG Antibody (Center) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the NANOG antibody detected the NANOG protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-NANOG antibody	NANOG is a Ttranscription regulator involved in inner cell mass and embryonic stem (ES) cels proliferation and self-renewal. It imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophectoderm lineages. This protein 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. NANOG acts as a transcriptional activator or repressor. It binds optimally to the DNA consensus sequence 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3'. When overexpressed, this protein promotes cells to enter into S phase and proliferation.
Product Categories/Family for anti-NANOG antibody	Crown Antibodies; Cancer; Developmental Biology; Signal Transduction
References	Kochupurakkal,B.S., Biochem. Biophys. Res. Commun. 365 (4), 846-850 (2008) Freberg,C.T., Mol. Biol. Cell 18 (5), 1543-1553 (2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	153945816
NCBI GeneID	79923
NCBI Accession #	NP_079141.2
NCBI GenBank Nucleotide #	NM_024865.3
UniProt Accession #	Q9H9S0; Q2TTG0; Q6JZS5; D3DUU4
NCBI Official Full Name	homeobox protein NANOG isoform 1
NCBI Official Synonym Full Names	Nanog homeobox
NCBI Official Symbol	NANOG
NCBI Protein Information	homeobox protein NANOG
UniProt Protein Name	Homeobox protein NANOG
UniProt Gene Name	NANOG
UniProt Synonym Gene Names	hNanog
UniProt Entry Name	NANOG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/nanog-antibody-western-blot-elisa/288943>