

# Anti-NANOG Antibody

Catalog # AP54003

## Product Information

Application	WB
Primary Accession	<a href="#">Q9H9S0</a>
Other Accession	<a href="#">Q8N7R0</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34620

## Additional Information

Gene ID	79923
Other Names	Homeobox protein NANOG; Homeobox transcription factor Nanog; hNanog
Target/Specificity	Recognizes endogenous levels of NANOG protein.
Dilution	WB~~1/500 - 1/1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	NANOG
Function	<p>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][GC]ATTAN[GC]- 3'. Binds to the POU5F1/OCT4 promoter (PubMed:<a href="#">25825768</a>). 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.</p>
Cellular Location	Nucleus {ECO:0000255   PROSITE-ProRule:PRU00108,

## 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.

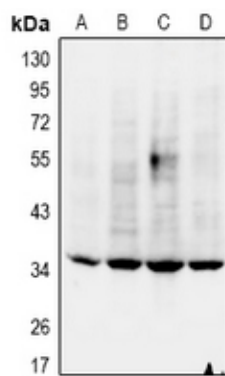
## Background

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Rabbit polyclonal antibody to NANOG

## Images

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Western blot analysis of NANOG expression in mouse embryo (A), rat testis (B), A2780 (C), HeLa (D) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.