

Nanog Antibody

Rabbit mAb

Catalog # AP90614

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	Q9H9S0
Reactivity	Human
Clonality	Monoclonal
Other Names	Homeobox transcription factor Nanog
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	34620

Additional Information

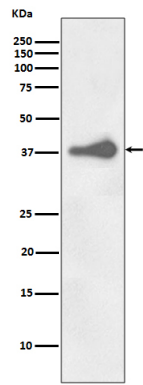
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Nanog
Description	Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophoctoderm lineages. Acts as a transcriptional activator or repressor By similarity.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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 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: 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.

Images



Western blot analysis of Nanog expression in NCCIT cell lysate.

Image not found : 202311/AP90614-IHC.jpg	Immunohistochemical analysis of paraffin-embedded rat testis, using Nanog Antibody.
Image not found : 202311/AP90614-IF.jpg	Immunofluorescent analysis of NCCIT cells, using Nanog Antibody.

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