

Rabbit anti-Human NANOG Polyclonal Antibody | anti-NANOG antibody

NANOG Antibody (S285)

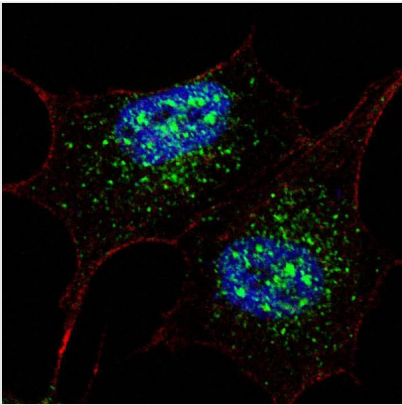
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285117	Rabbit	Human	Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

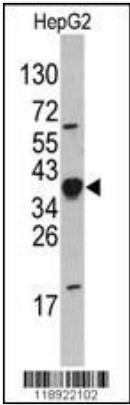
NANOG; Polyclonal Antibody; NANOG Antibody (S285); Homeobox protein NANOG; Homeobox transcription factor Nanog; hNanog; anti-NANOG antibody

PRODUCT SPECIFICATIONS

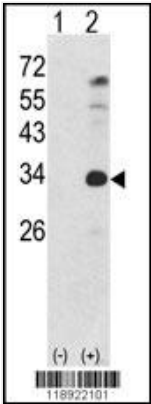
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This NANOG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 267-292 amino acids from human NANOG.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.31 (varies by lot)
Sequence Positions	267-292
Sequence Length	289
Applicable Applications for anti-NANOG antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IF (Immunofluorescence)
Fluorescent confocal image of SY5Y cells stained with AAA285117 NANOG (S285) antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min), then incubated with AAA285117 NANOG (S285) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (5.25 uM, 25 min). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 3 min). Nanog immunoreactivity is localized mainly to the nuclei and also to the cytoplasm.



WB (Western Blot)
Western blot analysis of NANOG Antibody (S285) in HepG2 cell line lysates (35ug/lane). NANOG (arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of NANOG (arrow) using rabbit NANOG Antibody (S285). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the NANOG gene (Lane 2) (Origene Technologies).

ADDITIONAL INFORMATION

Related Product Information for anti-NANOG antibody	NANOG is a Ttranscription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. It imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophoctoderm 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	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
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NCBI GeneID	79923
NCBI Accession #	NP_079141.2
NCBI GenBank Nucleotide #	NM_024865.3
UniProt Accession #	Q9H9S0; Q2TTG0; Q6JZS5; D3DUU4
Molecular Weight	34620
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-immunofluorescence-western-blot-elisa/285117>