

Product datasheet for TA302154S

NANOG Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: FC, IF, IHC, WB

Recommended Dilution: WB: 1:1000, IHC: 1:10~50, IF: 1:10~50, FC: 1:10~50

Reactivity: Human (Predicted: Bovine, Monkey)

Host: Rabbit

Isotype: lg

Clonality: Polyclonal

Immunogen: 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.

Formulation: Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

Concentration: lot specific

Purification: This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by

dialysis against PBS.

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 34489 Da

Gene Name: Nanog homeobox

Database Link: NP 079141

Entrez Gene 715746 MonkeyEntrez Gene 79923 Human

Q9H9S0



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

NANOG Rabbit Polyclonal Antibody - TA302154S

Background: 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.

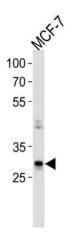
Synonyms: homeobox transcription factor Nanog; homeobox transcription factor Nanog-delta 48; Nanog

homeobox

Protein Families: Cancer stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem

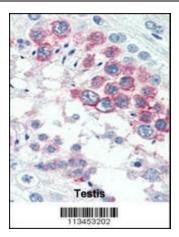
cells, Stem cell - Pluripotency

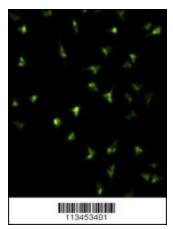
Product images:

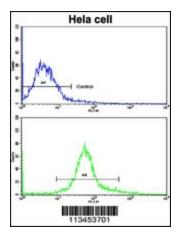


NANOG Antibody (Center) (Cat. #[TA302154]) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the NANOG antibody detected the NANOG protein (arrow).









Formalin-fixed and paraffin-embedded human Testis tissue reacted with NANOG antibody (Center) (Cat.#[TA302154]), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Immunofluorescence analysis of NANOG Antibody (Center) with hela cells. 0.025 mg/ml primary antibody was followed by FITC-conjugated goat anti-rabbit lgG (whole molecule). FITC emits green fluorescence.

Flow cytometric analysis of hela cells using NANOG Antibody (Center) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.