

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

Anti-NANOG Antibody, Rabbit Polyclonal

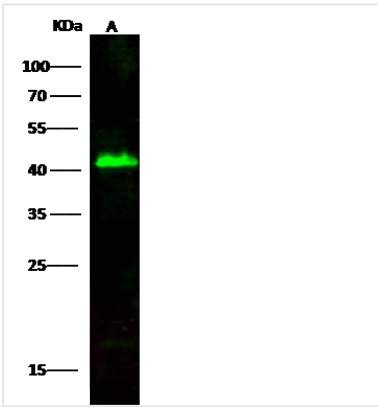
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254530	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NANOG; Polyclonal Antibody; Anti-NANOG Antibody; Rabbit Polyclonal; Nanog Antibody; Rabbit PAb; Antigen Affinity Purified; Nanog homeobox; anti-NANOG antibody

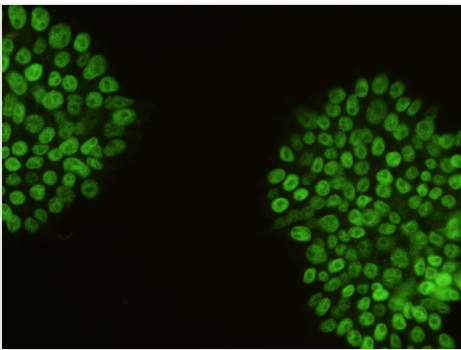
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Nanog
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-NANOG antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human Nanog
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human Nanog, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)

Anti- rabbit polyclonal antibody at 1:500 dilutionLane A: HESS9 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:34 kDaObserved band size:43 kDa



IF (Immunofluorescence)

Immunofluorescence staining of nanog in HESS9 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human nanog polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green)Positive staining was localized to nucleus.

ADDITIONAL INFORMATION

Related Product Information for anti-NANOG antibody

NANOG is a divergent homeobox protein and a core component of the transcriptional circuitry that sustains pluripotency and self-renewal. NANOG, as a key regulator of pluripotency and acting synergistically with other factors, has been described as a crucial transcription factor in various types of cancer.NANOG plays a pivotal role in pluripotency acquisition and lineage specification in higher vertebrates, and its expression is restricted to primordial germ cells (PGCs) during early embryonic development. Mammalian NANOG self-associates via conserved tryptophan-repeat motifs in the C-terminal domain (CTD) to maintain pluripotency. The NANOG homeobox gene plays a pivotal role in self-renewal and maintenance of pluripotency in human, mouse, and other vertebrate embryonic stem cells, and in pluripotent cells of the blastocyst inner cell mass.NANOG, a marker of stemness, impacts tumor progression and therapeutic resistance in cancer cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	118573073
NCBI GeneID	79923
UniProt Accession #	Q9H9S0; Q2TTG0; Q6JZS5; D3DUU4
Molecular Weight	305
NCBI Official Full Name	Homeobox protein NANOG
NCBI Official Synonym Full Names	Nanog homeobox
NCBI Official Symbol	NANOG
NCBI Protein Information	homeobox protein NANOG; homeobox transcription factor Nanog; homeobox transcription factor Nanog-delta 48
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.