

Datasheet for ABIN3031942  
**anti-Nanog antibody (AA 15-49)**

## 11 Images

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## Overview

Quantity:	0.4 mL
Target:	Nanog (NANOG)
Binding Specificity:	AA 15-49
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Flow Cytometry (FACS)

## Product Details

Immunogen:	A portion of amino acids 15-49 from the human protein was used as the immunogen for this NANOG antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Primate
Purification:	Purified

## Target Details

Target:	Nanog (NANOG)
Alternative Name:	NANOG ( <a href="#">NANOG Products</a> )

## Target Details

**Background:** NANOG is a transcription regulator involved in inner cell mass and embryonic stem (ES) cell 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. [UniProt]

**UniProt:** [Q9H9S0](#)

**Pathways:** [Stem Cell Maintenance](#)

## Application Details

**Application Notes:** Titration of the NANOG antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50,Flow Cytometry: 1:10-1:50,Immunofluorescence: 1:10-1:50

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

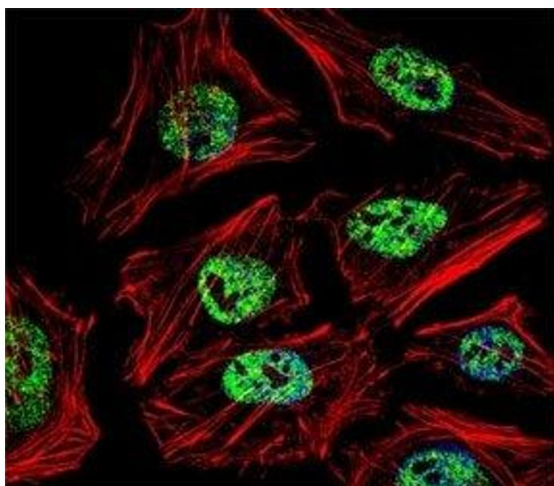
**Buffer:** In 1X PBS, pH 7.4, with 0.09 % sodium azide

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

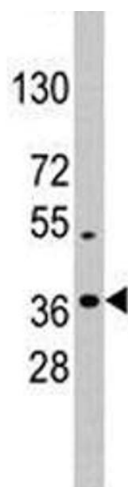
**Storage:** -20 °C

**Storage Comment:** Aliquot the NANOG antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



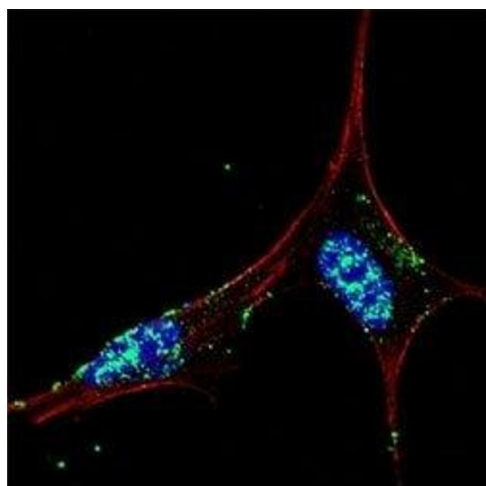
#### Immunofluorescence

**Image 1.** Fluorescent confocal image of HeLa cell stained with NANOG antibody at 1:25. Immunoreactivity is localized to the nucleus.



#### Western Blotting

**Image 2.** Western blot analysis of NANOG antibody and K562 lysate



#### Immunofluorescence

**Image 3.** Fluorescent confocal image of SY5Y cells stained with NANOG antibody at 1:50. Immunoreactivity is localized mainly to the nuclei of the cells.

Please check the [product details page](#) for more images. Overall 11 images are available for ABIN3031942.