Datasheet for ABIN3031938

anti-Nanog antibody (AA 267-292)

5 Images

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Overview

Quantity:	0.4 mL
Target:	Nanog (NANOG)
Binding Specificity:	AA 267-292
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 267-292 from the human protein was used as the immunogen for this NANOG antibody.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

Target Details

Target:	Nanog (NANOG)
Alternative Name:	NANOG (NANOG Products)
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

Target Details

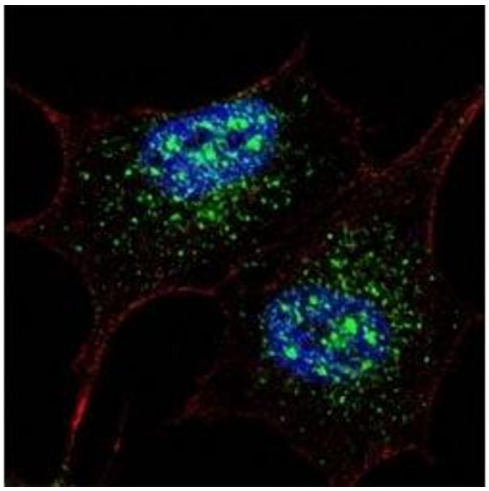
	blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes. NANOG acts as a transcriptional activator or repressor. It binds optimally to the DNA 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:	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,Immunofluorescence: 1:10-1:50
Restrictions:	For Research Use only

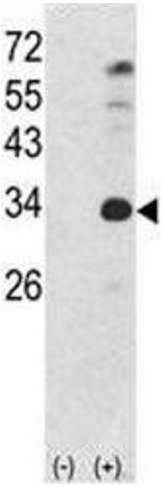
Handling

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.



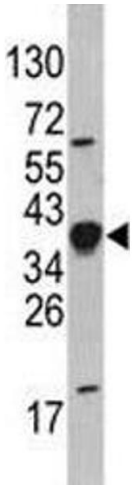
Immunofluorescence

Image 1. Fluorescent confocal image of SY5Y cells stained with NANOG antibody at 1:200. NANOG immunoreactivity is localized mainly to the nuclei and also to the cytoplasm.



Western Blotting

Image 2. Western blot analysis of NANOG antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the human gene (2). Predicted molecular weight: 35-45 kDa.



Western Blotting

Image 3. Western blot analysis of NANOG antibody and HepG2 lysate. Predicted molecular weight: 35-45 kDa.

Please check the product details page for more images. Overall 5 images are available for ABIN3031938.