

Datasheet for ABIN2854880

anti-Nanog antibody

14 Images

6 Publications

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Overview

Quantity:	100 µL
Target:	Nanog (NANOG)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human NANOG. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Ceratotherium simum, Human, Mouse
Characteristics:	Rabbit Polyclonal antibody to Nanog (Nanog homeobox) Nanog antibody [N3C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	Nanog (NANOG)
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Target Details

Alternative Name:	Nanog homeobox (NANOG Products)
Background:	<p>Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophoctoderm lineages. 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 (By similarity). Acts as a transcriptional activator or repressor (By similarity). Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3' (By similarity). When overexpressed, promotes cells to enter into S phase and proliferation.</p> <p>Cellular Localization: Nucleus</p>
Molecular Weight:	35 kDa
Gene ID:	79923
UniProt:	Q9H9S0
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IP: 1:100-1:500. ELISA: 1:1000-1:10000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	<p>Positive Control: HeLa nucleus</p> <p>Validation: Orthogonal</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	1XPBS (pH 7), 1 % BSA, 20 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

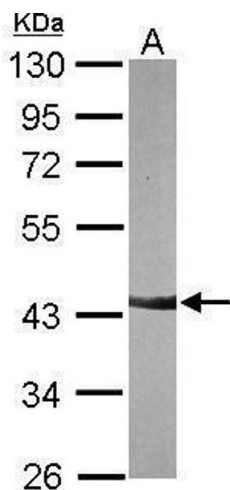
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in:	Rodriguez-Gil, Hu, Greer: "Dishevelled proteins are associated with olfactory sensory neuron presynaptic terminals." in: PLoS ONE , Vol. 8, Issue 2, pp. e56561, (2013) (PubMed).
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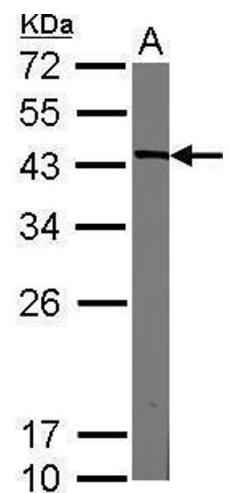
There are more publications referencing this product on: [Product page](#)

Validation report #104437 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



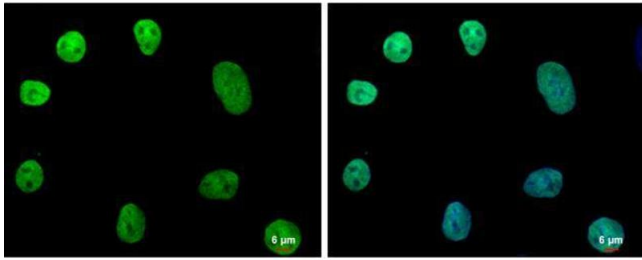
Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A: NIH-3T3 10% SDS PAGE antibody diluted at 1:3000



Western Blotting

Image 2. WB Image Sample (20 ug of whole cell lysate) A: mouse ESC 12% SDS PAGE antibody diluted at 1:3000



Immunofluorescence

Image 3. ICC/IF Image NANOG antibody [N3C3] detects NANOG protein at nucleus by immunofluorescent analysis. Sample: NT2D1 cells were fixed in 2% paraformaldehyde/culture medium at RT for 30 min. Green: NANOG protein stained by NANOG antibody [N3C3], diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 6 µm.

Please check the [product details page](#) for more images. Overall 14 images are available for ABIN2854880.