

Datasheet for ABIN7155812
anti-Nanog antibody (AA 1-305)



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2 Images

Overview

Quantity:	100 µg
Target:	Nanog (NANOG)
Binding Specificity:	AA 1-305
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Homeobox protein NANOG protein (1-305AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	Nanog (NANOG)
Alternative Name:	NANOG (NANOG Products)
Background:	Background: Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their

Target Details

differentiation towards extraembryonic endoderm and trophectoderm 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. Acts as a transcriptional activator or repressor. Binds optimally to the DNA consensus sequence 5\'-TAAT[GT][GT]-3\' or 5\'-[CG][GA][CG]C[GC]ATTAN[GC]-3\'. Able to autorepress its expression in differentiating (ES) cells: binds to its own promoter following interaction with ZNF281/ZFP281, leading to recruitment of the NuRD complex and subsequent repression of expression. When overexpressed, promotes cells to enter into S phase and proliferation.

Aliases: Embryonic stem cell specific homeobox protein (Nanog) antibody, ENK antibody, FLJ12581 antibody, hNanog antibody, Homeobox protein NANOG antibody, Homeobox transcription factor Nanog antibody, homeobox transcription factor Nanog-delta 48 antibody, NANOG antibody, Nanog homeobox antibody, NANOG_HUMAN antibody

UniProt: [Q9H9S0](#)

Pathways: [Stem Cell Maintenance](#)

Application Details

Application Notes: Recommended dilution: WB:1:2000-1:5000, IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

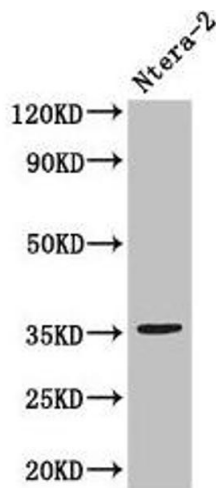
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

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

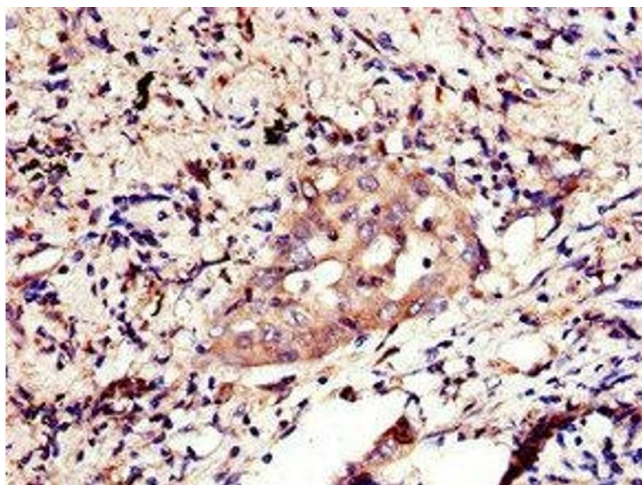
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Western Blotting

Image 1. Western Blot Positive WB detected in: Ntera-2 whole cell lysate All lanes: NANOG antibody at 3 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 35, 33 kDa Observed band size: 35 kDa



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human lung cancer using ABIN7155812 at dilution of 1:100