Datasheet for ABIN7155816

anti-Nanog antibody (AA 1-305)

9 Images

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Overview

Quantity:	100 µL
Target:	Nanog (NANOG)
Binding Specificity:	AA 1-305
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant Human Homeobox protein NANOG protein (1-305AA)
Clone:	8A1D11
Isotype:	IgG1, IgG1 kappa
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G purified

Target Details

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

Target Details

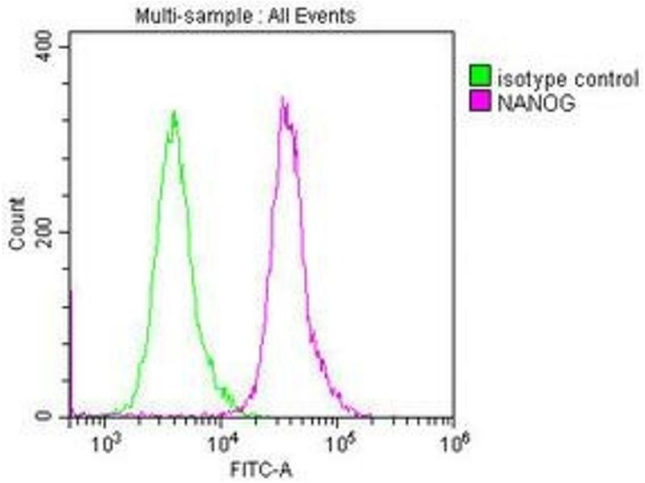
Background:	Background: Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophectoderm lineages. Blocks bone morphogenetic protein-induced 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'. Binds to the POU5F1/OCT4 promoter (PubMed:25825768). 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: Homeobox protein NANOG (Homeobox transcription factor Nanog) (hNanog), NANOG
UniProt:	Q9H9S0
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:2000, ICC:1:50-1:500, IF:1:50-1:200,
Restrictions:	For Research Use only

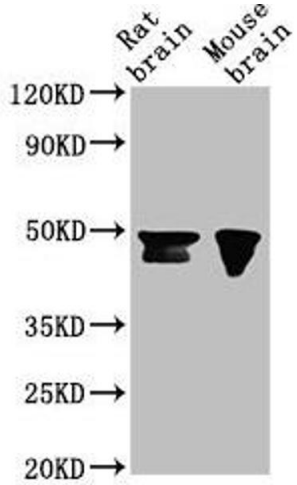
Handling

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.



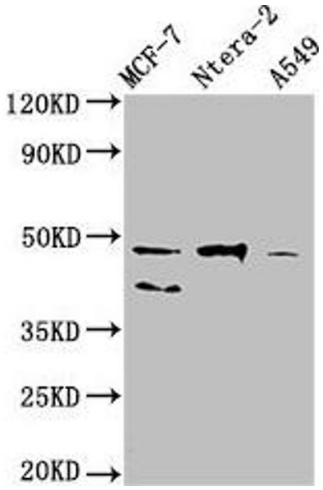
Flow Cytometry

Image 1. Overlay histogram showing Ntera-2 cells stained with ABIN7155816 (red line) at 1:250. The cells were incubated in 1x PBS /10 % normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4 °C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4 °C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.



Western Blotting

Image 2. Western Blot Positive WB detected in: Rat brain tissue, Mouse brain tissue All lanes: NANOG antibody at 1:500 Secondary Goat polyclonal to Mouse IgG at 1/10000 dilution Predicted band size: 35, 33 kDa Observed band size: 46, 42 kDa



Western Blotting

Image 3. Western Blot Positive WB detected in: MCF-7 whole cell lysate, Ntera-2 whole cell lysate, A549 whole cell lysate All lanes: NANOG antibody at 1:500 Secondary Goat polyclonal to Mouse IgG at 1/10000 dilution Predicted band size: 35, 33 kDa Observed band size: 46, 40 kDa

Please check the product details page for more images. Overall 9 images are available for ABIN7155816.