Nanog antibody [GT3312]

Cat. No. GTX627421

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Applications	WB, FCM
Reactivity	Human, Mouse

References (27)

Review (3)

Package
100 µl, 25 µl

PRODUCT

Summary

Nanog antibody recognizes Nanog protein, a 35 kDa transcription factor that maintains pluripotency and the self-renewal feature of embryonic stem cells. It is one of the Thomson factors (i.e., NANOG, OCT4, SOX2, and LIN28) that induce a stable intrinsic pluripotency network to generate induced pluripotent stem cells. In addition, NANOG expression is elevated in cancer stem cells and correlates with a worse prognosis for many tumor types.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
FCM	1:50-1:200

Not tested in other applications.

Calculated MW 35 kDa. (Note)

Properties

Form	Liquid
Buffer	PBS
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Recombinant protein encompassing a sequence within the center region of human NANOG. The exact sequence is proprietary.
Purification	Affinity purified by Protein G.
Conjugation	Unconjugated

For full product information, images and publications, please visit our website.

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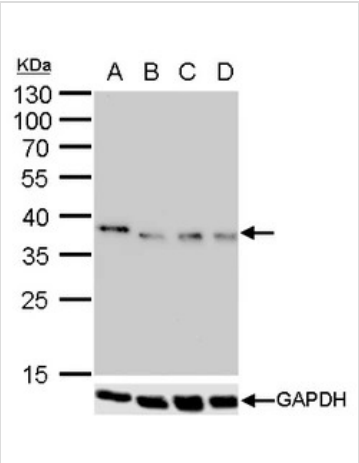
Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

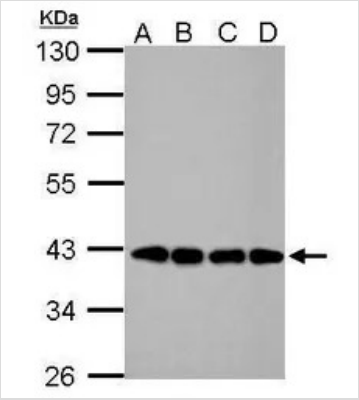
Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



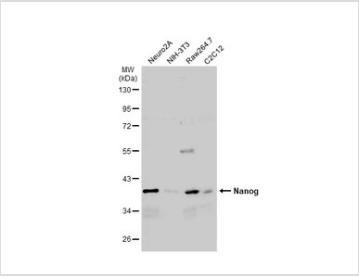
GTX627421 WB Image

NANOG antibody [GT3312] validation by siRNA knock-down.
Upperpanel: NANOG antibody [GT3312] GTX627421
Lower panel: GAPDH antibody (GTX100118)
A. 30 µg Tera-2 whole cell lysate/extract
B. 30 µg whole cell lysate/extract of NANOG siRNA#1-transfected Tera-2 cells
C. 30 µg whole cell lysate/extract of NANOG siRNA#2-transfected Tera-2 cells
D. 30 µg whole cell lysate/extract of NANOG siRNA#3-transfected Tera-2 cells
10% SDS-PAGE
NANOG antibody [GT3312] (GTX627421) dilution: 1:1000
GAPDH antibody (GTX100118) dilution: 1:10000
The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.



GTX627421 WB Image

Sample (30 µg of whole cell lysate)
A: 293T
B: A431
C: HeLa
D: HepG2
10% SDS PAGE
GTX627421 diluted at 1:1000
The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.



GTX627421 WB Image

Various whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with Nanog antibody [GT3312] (GTX627421) diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.

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