

A23991

Leader in Biomolecular Solutions for Life Science



NANOG Rabbit mAb

Catalog No.: A23991

Recombinant

Basic Information

Observed MW

42kDa

Calculated MW

34kDa

Category

SMab Recombinant Monoclonal
Antibody

Applications

WB,ChIP,ELISA,FC (intra)

Cross-Reactivity

Human,Mouse

CloneNo number

ARC62769

Background

The protein encoded by this gene is a DNA binding homeobox transcription factor involved in embryonic stem (ES) cell proliferation, renewal, and pluripotency. The encoded protein can block ES cell differentiation and can also autorepress its own expression in differentiating cells. Several transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB	1:1000 - 1:2000
ChIP	5µg antibody for 10µg-15µg of Chromatin
FC (intra)	1:500 - 1:1000

Immunogen Information

Gene ID
71950

Swiss Prot
Q80Z64

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

ENK; Stm1; ecat4; 2410002E02Rik; NANOG

Contact

 www.abclonal.com

Product Information

Source
Rabbit

Isotype
IgG

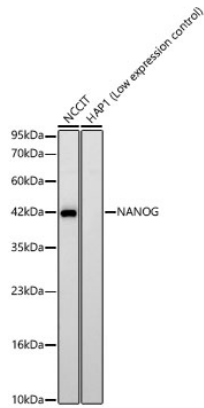
Purification
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of lysates from NCCIT and HAP1 cells, using NANOG Rabbit mAb (A23991) at 1:1000 dilution.

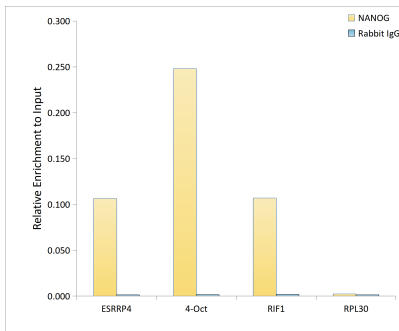
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

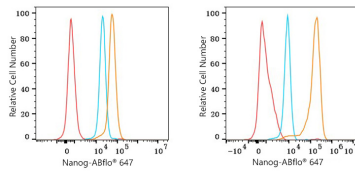
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

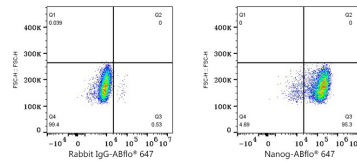
Exposure time: 60s.



Chromatin immunoprecipitation was performed with cross-linked chromatin from F9 cells, using NANOG Rabbit mAb (A23991) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram compares the ratio of the immunoprecipitated DNA versus the input.



Flow cytometry: 1×10^6 HeLa cells (negative control, left) and NTERA-2 cells (right) were intracellularly-stained with Nanog Rabbit mAb (A23991, 2 µg/mL, orange line) or Rabbit IgG isotype control (AC042, 2 µg/mL, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1×10^6 NTERA-2 cells were intracellularly-stained with Rabbit IgG isotype control (AC042, 2 µg/mL, left) or Nanog Rabbit mAb (A23991, 2 µg/mL, right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.