

# NANOG Rabbit mAb

Catalog No.: A23991 **Recombinant**

## Basic Information

### Observed MW

42kDa

### Calculated MW

34kDa

### Category

Primary antibody

### Applications

ELISA, WB, ChIP, 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** 1:500 - 1:1000

**ChIP** 5µg antibody for  
10µg-15µg of Chromatin

**FC (intra)** 1:500 - 1:1000

## Immunogen Information

### Gene ID

71950

### Swiss Prot

Q80Z64

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 160-305 of mouse NANOG(NP\_082292.1).

### Synonyms

ENK; Stm1; ecat4; 2410002E02Rik; NANOG

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

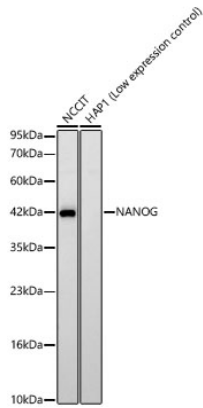
Affinity purification

### Storage

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

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data



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

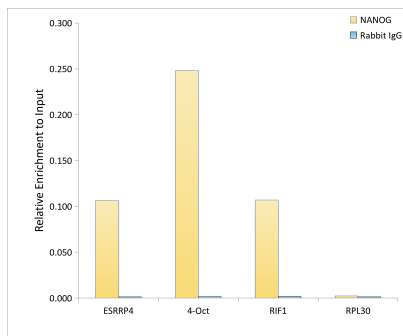
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

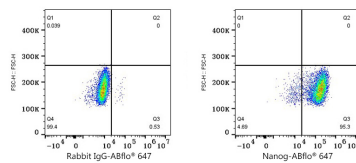
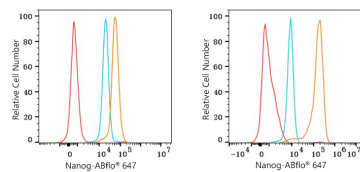
Blocking buffer: 3% nonfat dry milk in TBST.

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:  $1 \times 10^6$  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:  $1 \times 10^6$  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.