

Nanog Rabbit mAb

Catalog NO.: A28665 **Recombinant**

Basic Information

Observed MW

29-42 kDa

Calculated MW

32 kDa/34 kDa

Category

Monoclonal Antibodies

Applications

WB, IP, IF/ICC, ChIP, ELISA

Cross-Reactivity

Mouse

Conjugation

Unconjugated

Clone number

ARC74026

Recommended Dilutions

WB 1:2000 - 1:5000

IP

0.5 µg - 4 µg antibody for 900 µg - 1100 µg extracts of whole cells

IF/ICC 1:200 - 1:400

ChIP

2 µg antibody for 10 µg - 15 µg of Chromatin

ELISA

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥ 1:10000)

Contact

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.

Immunogen Information

Gene ID

71950

Swiss Prot

Q80Z64

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

ENK; Stm1; ecat4; 2410002E02Rik

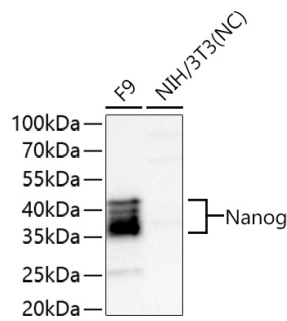
Product Information

☒		order@abclonal.com
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☒		www.abclonal.com

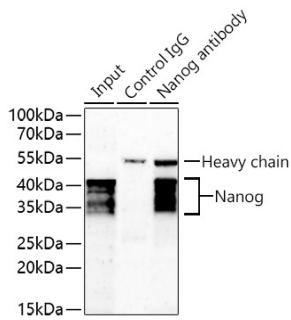
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage
 Store at -20°C. Avoid freeze / thaw cycles.
 Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with sodium azide (as specified on the Certificate of Analysis), pH 7.3.

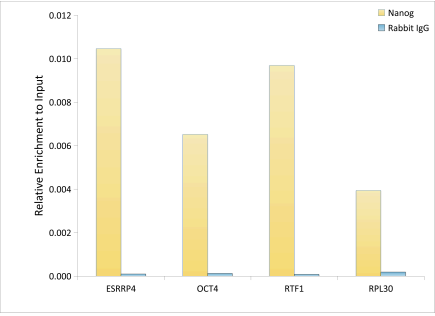
Validation Data



Western blot analysis of various lysates using Nanog Rabbit mAb (A28665) at 1:5000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Negative control (NC): NIH/3T3.
 Exposure time: 90 s.

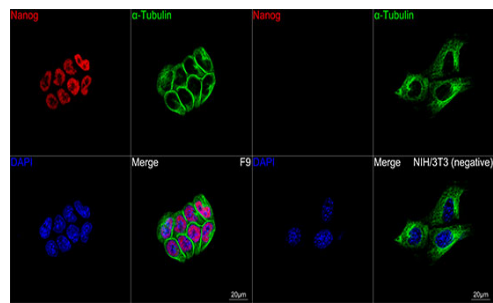


Immunoprecipitation of Nanog from 900 µg extracts of F9 cells was performed using 1 µg of Nanog Rabbit mAb (A28665). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Nanog Rabbit mAb (A28665) at a dilution of 1:1000.



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from F9 cells, using 2 µg of Nanog Rabbit mAb(A28665) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.

Validation Data



Confocal imaging of F9 cells and NIH/3T3 (negative) cells using Nanog Rabbit mAb (A28665, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

