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Nanog Rabbit mAb

Catalog No.: A28665 Recombinant

Basic Information

Observed MW
29-42 kDa

Calculated MW
32 kDa/34 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,ChIP,ELISA

Cross-Reactivity
Mouse

CloneNo number
ARC74026

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	1:2000 - 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)a sequential dilution method is strongly recommended to ensure measurement accuracy.

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

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. 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.

Contact

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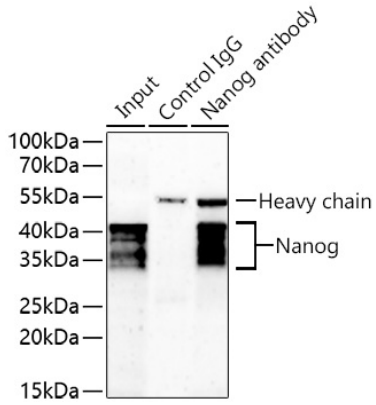
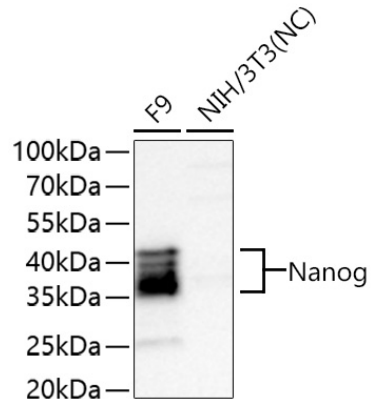
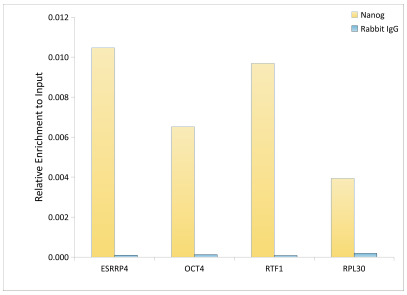
Validation Data



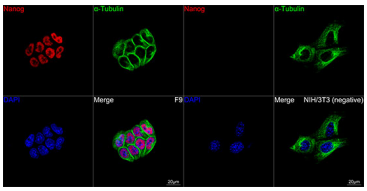
Immunoprecipitation of Nanog from 900 µg extracts of F9 cells was performed using 1 µg of Nanog Rabbit mAb (A28665). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot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



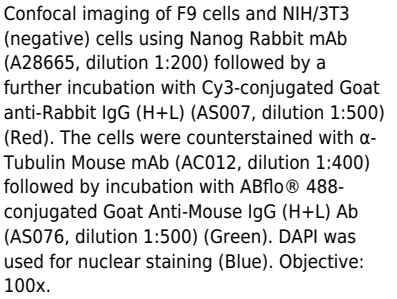
Western blot analysis of various lysates using Nanog Rabbit mAb (A28665) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL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



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.