Rabbit anti Nanog Polyclonal Antibody

Alternative Name(s): Nanog homeobox

Order Information

- **Description:** Nanog
- **Catalogue:** 620-510
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

The Synthetic peptide corresponding to the N-term of human Nanog (29aa-50aa).

BACKGROUND

Embryonic stem (ES) cells derived from the inner cell mass (ICM) of blastocysts grow infinitely while maintaining pluripotency. Leukemia inhibitory factor (LIF) can maintain self-renewal of mouse ES cells through activation of Stat3. However, LIF/Stat3 is dispensable for maintenance of ICM and human ES cells, suggesting that the pathway is not fundamental for pluripotency. Nanog is a homeodomain containing transcription factor that is essential for the maintenance of pluripotency and self renewal in embryonic stem cells and ICM. Nanog expression is controlled by a network of factors including Sox2 and the key pluripotency regulator Oct4 and other transcription factors such as KLF4, c-Myc and Lin28.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody reacts with human Nanog. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

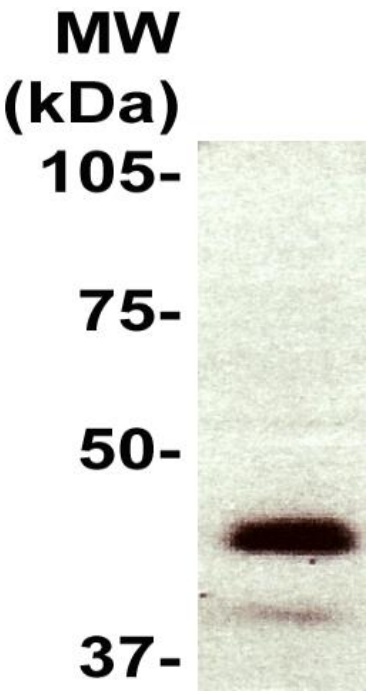
APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 34.4
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

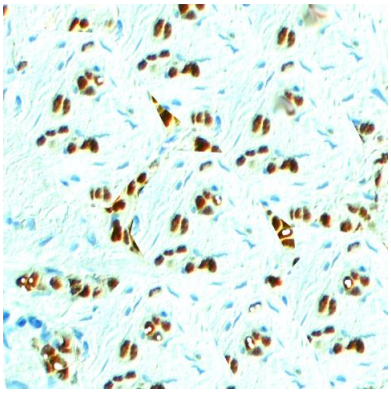
*Optimal dilutions should be determined by researchers for the specific applications.

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). www.abbomax.com info@abbomax.com

DATA ATTACHMENTS



Western Blot: The whole cell lysate derived form human embryonic stem cell (hESC) was separated in 10% SDS-PAGE, transferred onto Nitrocellulose membrane, and immunoblotted by Rabbit anti-Nanog (Cat#620-510) at 1:500. An immune-reactive band around 42 kDa is observed.



Immunohistochemistry: Human embryonic stem cell (hESC) was fixed onto cell culture chamber slide and stained with Rabbit anti -Nanog antibody (Cat# 620-510) at 1:200 for 30 min @ RT. Positive staining at nuclear is observed.

REFERENCES

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