Anti-Nanog Antibody

R1108-2

Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB
Molecular Wt:	Predicted band size: 35 kDa

Description: NANOG is a transcription factor critically involved with self-renewal of undifferentiated embryonic stem cells. NANOG is thought to function in concert with other factors such as POU5F1 and SOX2 to establish ESC identity. Overexpression of NANOG in mouse embryonic stem cells causes them to self-renew in the absence of Leukemia inhibitory factor. NANOG overexpression in human embryonic stem cells enables their propagation for multiple passages during which the cells remain pluripotent.

Immunogen: Synthetic peptide within mouse Nanog aa 56-100.

Positive control: NCCIT cell lysate, JAR cell lysate.

Subcellular location: Nucleus

Database links: SwissProt: Q9H9S0 Human | Q80Z64 Mouse

Recommended Dilutions:

WB	1:2,000

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Images

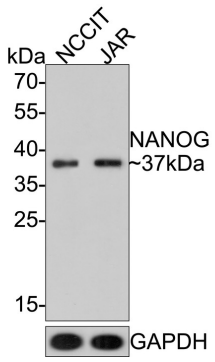

Fig1: Western blot analysis of Nanog on different lysates with Rabbit anti-Nanog antibody (R1108-2) at 1/500 dilution.

Lane 1: NCCIT cell lysate
Lane 2: JAR cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 35 kDa
Observed band size: 37 kDa

Exposure time: 2 minutes;

12% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (R1108-2) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "The homeoprotein Nanog is required for maintenance of pluripotency in mouse epiblast and ES cells."Mitsui K., Tokuzawa Y., Itoh H., Segawa K., Murakami M., Takahashi K., Maruyama M., Maeda M., Yamanaka S.Cell 113:631-642(2003)
2. "Stem cell pluripotency factor NANOG is expressed in human fetal gonocytes, testicular carcinoma in situ and germ cell tumours."Hoei-Hansen C.E., Almstrup K., Nielsen J.E., Brask Sonne S., Graem N., Skakkebaek N.E., Leffers H., Rajpert-De Meyts E.Histopathology 47:48-56(2005)