For Research Use Only

Nanog Monoclonal antibody

Catalog Number:67255-1-Ig 17 Publications

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Basic Information

Catalog Number:
67255-1-Ig

Concentration:
2100 ug/ml

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG21364

GenBank Accession Number:
BC160187

GeneID (NCBI):
79923

UNIPROT ID:
Q9H9S0

Full Name:
Nanog homeobox

Calculated MW:
35 kDa

Observed MW:
35-40 kDa

Purification Method:
Protein A purification

CloneNo.:
3A2E1

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse

Cited Species:
human

Positive Controls:

WB : HT-29 cells, HuH-7 cells, MDA-MB-231 cells, MCF-7 cells, T-47D cells, NCCIT cells, JAR cells, human placenta tissue

Background Information

Nanog is a member of the homeobox family of DNA binding transcription factors and has been shown to maintain embryonic stem (ES) cell self-renewal independently of leukemia inhibitory factor (LIF)/Stat3. Nanog mRNA is present in pluripotent mouse and human cell lines, and absent from differentiated cells. Functionally, Nanog works together with other key pluripotent factors (Oct4, Sox2, and Lin28) to reprogram human fibroblasts and generate induced pluripotent stem (iPS) cells. These key factors form a regulatory network to support or limit each other's expression level, which maintains the properties of ES cells. Affinity purified rabbit anti-Nanog can be used to demonstrate pluripotency of ES and IPS cells. There are two kinds of variants could recognized by NANOG, one is normal form (~39kd), the other is post-translation modified form (~48kd) (21136380). Nanog exists two isoforms with molecular weight 34.4 kDa and 31.9 kDa. (PMID: 21969378)

Notable Publications

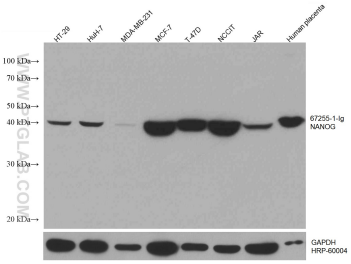
Author	Pubmed ID	Journal	Application
Xueni Liu	31760402	Med Sci Monit	WB
Yin Yuan	36414390	J Med Chem	WB
Yang Wang	36333630	Apoptosis	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67255-1-Ig (Nanog antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.