

For Research Use Only

# NANOG Monoclonal antibody

Catalog Number: 67255-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 67255-1-Ig	<b>GenBank Accession Number:</b> BC160187	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 79923	<b>CloneNo.:</b> 3A2E1
<b>Source:</b> Mouse	<b>Full Name:</b> Nanog homeobox	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 35 kDa	
<b>Immunogen Catalog Number:</b> AG21364	<b>Observed MW:</b> 40-42 kDa	

## Applications

<b>Tested Applications:</b> WB,ELISA	<b>Positive Controls:</b> WB : HT-29 cells, human placenta tissue, MCF-7 cells, NCCIT cells, HuH-7 cells, MDA-MB-231 cells, T-47D cells, JAR cells
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human, mouse	
<b>Cited Species:</b> human	

## 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 be 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
Ling Gao	31545261	Biomed Pharmacother	WB

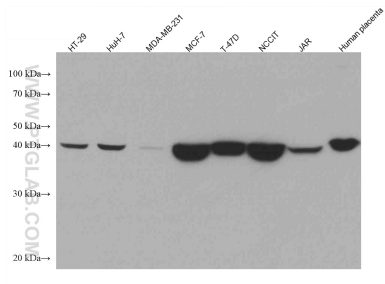
## Storage

**Storage:**  
Store at -20°C.  
**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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## 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.