

For Research Use Only

Nanog Monoclonal antibody

Catalog Number: 67255-1-Ig **17 Publications**



Basic Information

Catalog Number: 67255-1-Ig	GenBank Accession Number: BC160187	Purification Method: Protein A purification
Size: 150ul, Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 79923	CloneNo.: 3A2E1
Source: Mouse	UNIPROT ID: Q9H9S0	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG2a	Full Name: Nanog homeobox	
Immunogen Catalog Number: AG21364	Calculated MW: 35 kDa	
	Observed MW: 35-40 kDa	

Applications

Tested Applications: WB, ELISA	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
Cited Applications: WB, IF	
Species Specificity: human, mouse	
Cited Species: 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
Yin Yuan	36414390	J Med Chem	WB
Yang Wang	36333630	Apoptosis	WB

Storage

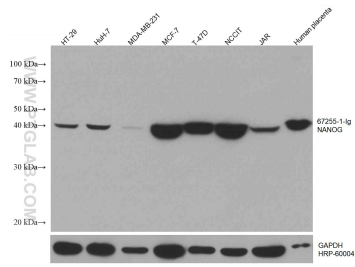
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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.