For Research Use Only

Nanog Recombinant antibody

Catalog Number:80210-13-RR



Purification Method:

WB 1:2000-1:10000

IF/ICC 1:250-1:1000

Basic Information

Catalog Number: GenBank Accession Number:

80210-13-RR BC160187 Protein A purification GeneID (NCBI): CloneNo.:

100ul , Concentration: 1000 $\mu g/ml$ by 79923 250067F10 Nanodrop: **UNIPROT ID:** Recommended Dilutions:

Q9H9S0 Rabbit Full Name: Isotype: Nanog homeobox IgG Calculated MW: Immunogen Catalog Number: 35 kDa

AG5645 Observed MW: 35-40 kDa

Applications Tested Applications: Positive Controls:

WB, IF/ICC, ELISA WB: NIH/3T3 cells, mouse brain tissue, rat brain tissue,

Species Specificity: C2C12 cells

human, mouse, rat IF/ICC: NCCIT cells,

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. There are two kinds of variants that can be recognized by NANOG, one is a normal form (~39 kDa), the other is a post-translation modified form (~48 kDa) (21136380). Nanog has two isoforms with molecular weights of 34.4 kDa and 31.9 kDa. (PMID: 21969378)

Storage

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

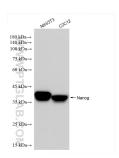
*** 20ul sizes contain 0.1% BSA

in USA), or 1(312) 455-8498 (outside USA)

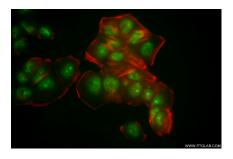
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

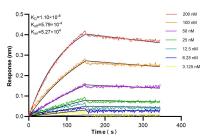
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80210-13-RR (NANOG antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed NCCIT cells using Nanog antibody (80210-13-RR, Clone: 250067F10) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLL) kinetic assays of 80210-13-RR against Human Nanog were performed. The affinity constant is 11.0 nM.