

NANOG Polyclonal Antibody

Catalog number: 14295-1-AP

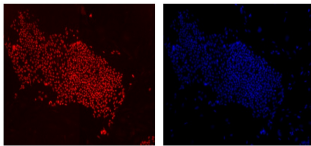
Size: 23 µg/150 µl

Source: Rabbit

Isotype: IgG

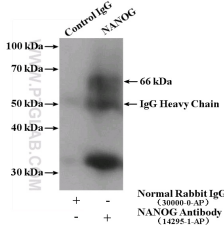
Synonyms:

NANOG; hNanog, Homeobox protein NANOG, NANOG, Nanog homeobox

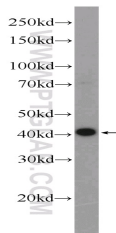


Confocal immunofluorescent analysis of human embryonic stem cells with 14295-1-AP at dilution of 1:200. The PE shows staining with 14295-1-AP/PE. The DAPI shows nuclear staining by DAPI.

Confocal immunofluorescent analysis of human embryonic stem cells with 14295-1-AP at dilution of 1:200. The PE shows staining with 14295-1-AP/PE. The DAPI shows nuclear staining by DAPI.



IP Result of anti-NANOG (IP:14295-1-AP, 4µg; Detection:14295-1-AP 1:1500) with NCCIT cell lysate 2000µg.



rat brain tissue were subjected to SDS PAGE followed by western blot with 14295-1-AP(NANOG Antibody) at dilution of 1:2000

Background

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 PTD form (~48kd) (21136380)

Applications

Tested applications:	ELISA, IF, WB, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated NANOG MW:	35 kDa
Observed NANOG MW:	43-48 kDa, 66-70 kDa
Positive WB detected in	Rat brain tissue, human brain tissue, mouse brain tissue
Positive IP detected in	NCCIT cell
Positive IF detected in	Human embryonic stem cells
Recommended dilution:	WB: 1:1000-1:10000 IP: 1:500-1:5000 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag5645
GenBank accession number:	BC160187
Gene ID (NCBI):	79923
Full name:	Nanog homeobox

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.