

Anti Human Nanog Antibody, Unlabeled

Cat# : RCAB004P-F (100µL)

Lot: C01PL04

Research Use Only

► Background

Transcriptional factors, OCT3/4 (POU5F1) and STAT3 function as key regulators in maintaining pluripotency of stem cells. Thus, POU5F1 and STAT3 have been widely used as molecular markers of pluripotential stem cells. Pluripotential cell-specific *Nanog* gene is a newly identified homeodomain-bearing transcriptional factor. Importantly, *Nanog* is expressed specific to early embryos and pluripotential stem cells including mouse and human embryonic stem (ES) and embryonic germ (EG) cells. It is a key molecule involved in the signaling pathway for maintaining the capacity for self-renewal and pluripotency, bypassing regulation by the STAT3 pathway. Therefore, *Nanog* is one of the molecular markers suitable for recognizing the undifferentiated state of stem cells in the mouse and human.

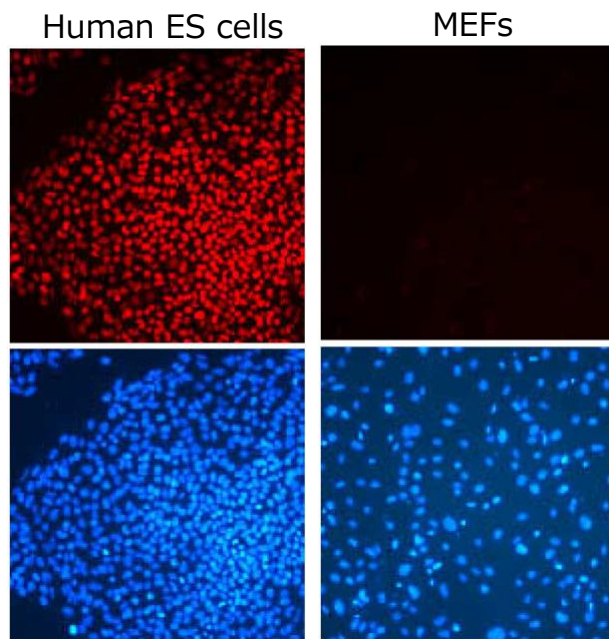
► Product information

Host	Rabbit
Immunogen	Human Nanog peptide
Clonality	Polyclonal
Purity	Immunogen affinity purified
Concentration	0.2 mg/mL
Storage Buffer	PBS (incl.0.1% sodium azide)
Storage	4 °C (short term) -20 or -80 °C (long term)

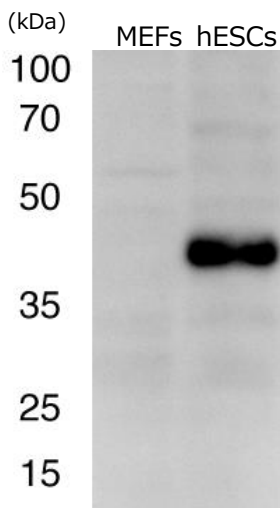
► Application

Western blot	1/1,000
Immunocytochemistry	1/100~1/200

Immunocytochemistry



Western blot



Blocking : 3%Skim milk, 0.1% Triton X-100 / PBS
1st antibody: Polyclonal anti-human Nanog antibody, 1/1,000
2nd antibody: Anti-Rabbit IgG
Detection: ECL plus

1st antibodies: 1/200 4°C overnight
2nd antibodies: Alexa 546 anti-rabbit IgG, 1.5 hr RT
Nuclear staining: DAPI

Manufacturer:

ReproCELL Inc.

<http://www.reprocell.com>

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