

# Anti Human Nanog Antibody, Unlabeled

Cat#: RCAB003P-F (200µL), RCAB004P-F (100µL)

Lot: 20100613

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.

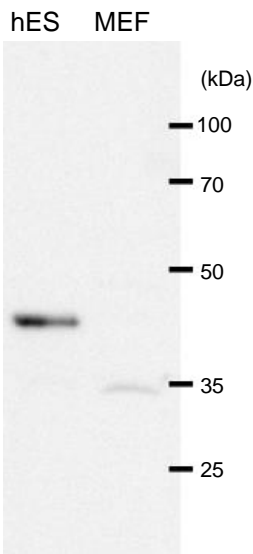
## ► Product information

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 deg C (short term) -20 or -80 deg C (long term)

## ► Application

Western blot	1/200
Immunocytochemistry	1/100

## Western blot



Proteins: 5 µg/lane  
Blocking : 3%Skim milk, 3%BSA,  
0.1% Triton X-100 / PBS  
1st antibodies: Polyclonal anti-  
human Nanog antibody, 1/200  
2nd antibodies: HRP-Anti-Rabbit  
IgG  
Detection: ECL plus

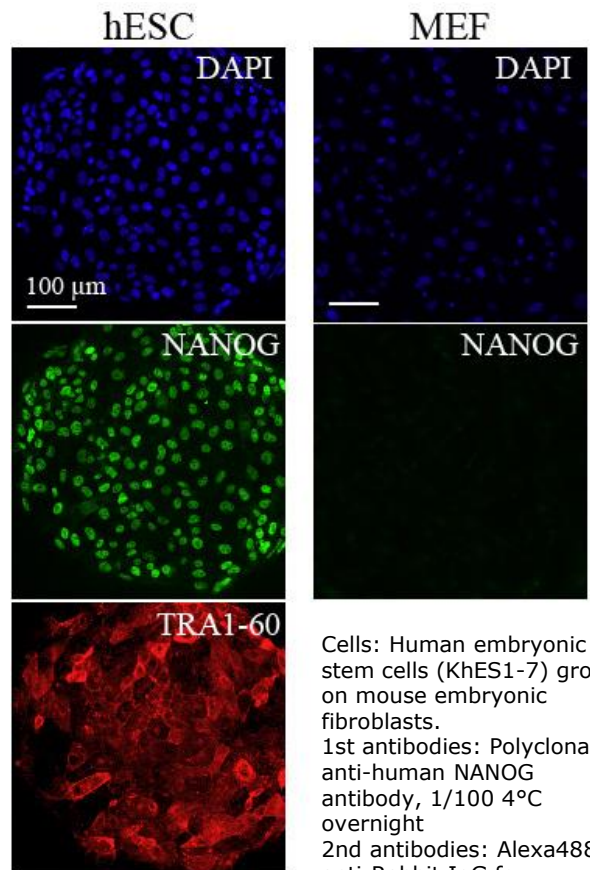
Manufacturer:

**ReproCELL Inc.**

<http://www.reprocell.com>

E-mail: [info\\_repro@reprocell.com](mailto:info_repro@reprocell.com)

## Immunocytochemistry



Cells: Human embryonic stem cells (KhES1-7) grown on mouse embryonic fibroblasts.

1st antibodies: Polyclonal anti-human NANOG antibody, 1/100 4°C overnight

2nd antibodies: Alexa488 anti-Rabbit IgG for hN|ANOG 1.5 hr RT

Nuclear staining: DAPI