

Anti Mouse Nanog Antibody, Unlabeled

Cat#: RCAB001P, Quantity: 200µL, Lot: A01ND22

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.

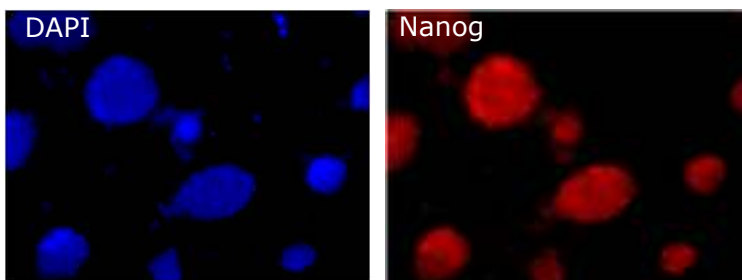
► Product information

Host	Rabbit
Immunogen	Recombinant mouse nanog full-length
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

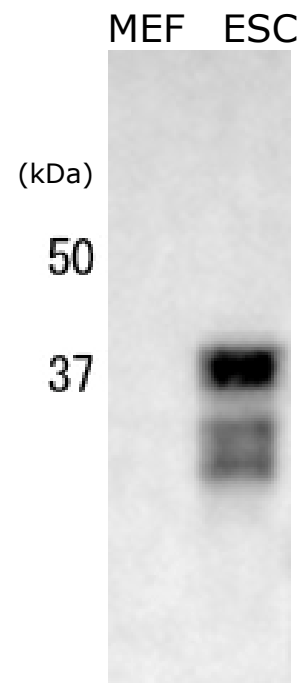
Western blot	1/200
Immunocytochemistry	1/100

Immunocytochemistry



Secondary antibody:
Alexa555 anti-Rabbit IgG (Life technologies,
A31572 1/100)
Nuclear staining: DAPI

Western blot



Manufacturer:
ReproCELL Inc.
<http://www.reprocell.com>
E-mail: info_repro@reprocell.com

Secondary antibody:
HRP-Anti-Rabbit IgG (GE, NA934 1/4000)