



Anti mouse Nanog Polyclonal antibody

Back Ground

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^{1),2)}. 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.

Reference

1. Mitsui, K. et al. : Cell. 2003 May 30; 113(5):631-642
2. Hatano, S.Y., Tada, M., Kimura, H., Yamaguchi, S., Kono, T., Nakano, T., Suemori, H., Nakatsuji, N. and Tada, T. (2005)
Pluripotential competence of cells associated with Nanog activity.
Mech Dev 122, 67-79.
3. Yamaguchi, S., Kimura, H., Tada, M., Nakatsuji, N. and Tada, T. (2005)
Nanog expression in mouse germ cell development. Gene Expr Patterns 5, 639-646

Details

Package Size:	200ul (0.2mg/ml)
Form:	affinity purified polyclonal antibody, Liquid
Immunogen:	Mouse Nanog protein
Cross Reactivity:	Mouse, Human Monkey
Storage Buffer:	PBS, pH7.4
Storage condition:	4C°~-20C°
Applications:	Mouse / Immunocytochemistry, Immunoprecipitation, Western blot Human, Monkey / Immunocytochemistry

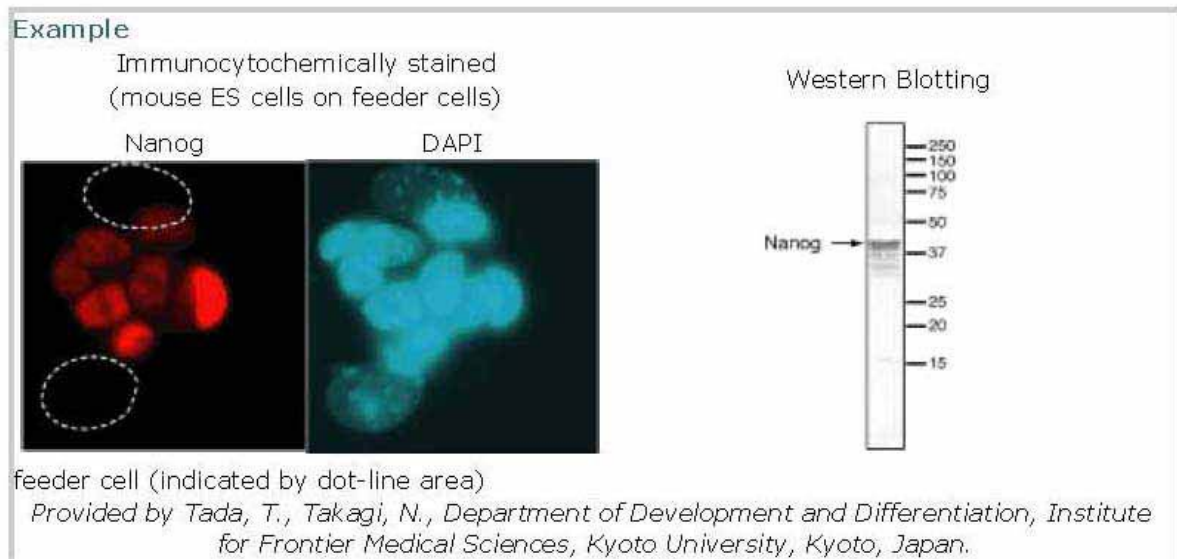


Application Notes:

Western blot: Use at a dilution of 1/300 – 1/2000
(with PBS containing 0.1% Triton X-100, 1% BSA,
or TBS Containing 3% skim milk.)

Immunocytochemistry: Use at a dilution of 1/150 – 1/700
(with PBS containing 0.1% Triton X-100, 1% BSA,
10% goat serum, Mouse embryonic stem cells were
fixed with 3.7% formaldehyde in PBS)

Immunoprecipitation: Use at a dilution of 1/300 (with RIPA buffer)



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TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN

URL: <http://www.cosmobio.co.jp> e-mail: export@cosmobio.co.jp

[Outside Japan]

[国内連絡先]

Phone : +81-3-5632-9617

Phone : +81-3-5632-9610

FAX : +81-3-5632-9618

FAX : +81-3-5632-9619