

Rabbit Anti-Nanog , Alexa Fluor® 680 conjugated antibody

SL0829R-AF680

Product Name	Nanog, Bodipy Fluor 680 conjugated
Chinese Name	AF680 标记的胚胎 Stem cells 关键蛋白抗体
Alias	NANOG_MOUSE; Embryonic stem cell specific homeobox protein (Nanog); ENK; FLJ12581; FLJ40451; Homeobox transcription factor Nanog; Nanog homeobox; Homeobox protein NANOG; ES cell-associated protein 4; Early embryo specific expression NK-type homeobox protein; Homeobox transcription factor Nanog; Nanog; Ecat4.
Research Area	Tumour Chromatin and nuclear signals Signal transduction Stem cells Cyclin Cell Surface Molecule Cell differentiation
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat)
Applications	Flow-Cyt=1ug/test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	34kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from mouse Nanog: 71-170/305
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Nanog is a newly identified homeodomain-bearing transcriptional factor. Nanog expression is 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. Nanog mRNA is present in pluripotent mouse and human cell lines, and absent from differentiated cells. Nanog-deficient ES cells lose pluripotency and differentiate into extraembryonic endoderm lineage. Thus it is one of the molecular markers suitable for recognizing the undifferentiated state of stem cells in the mouse and human.

NANOG is a new marker for testicular carcinoma in situ and germ cell tumors. NANOG is a gene expressed in embryonic stem cells (ESCs) and is thought to be a key factor in maintaining pluripotency. NANOG thought to function in concert with other factors such as POU5F1 and SOX2 to establish ESC identity. These cells offer an important area of study because of their ability to maintain pluripotency. In other words, these cells have the ability to become virtually any cell of any of the three germ layers (endoderm, ectoderm, mesoderm).

Product Detail

SWISS:
Q80Z64

Gene ID:
71950

Database links:

[Entrez Gene: 79923](#) Human

[Entrez Gene: 71950](#) Mouse

[Omim: 607937](#) Human

[SwissProt: Q9H9S0](#) Human

[Unigene: 635882](#) Human