

Monoclonal Antibody to NANOG - Purified

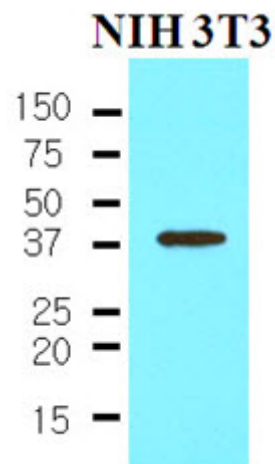
Alternate names:	Homeobox protein NANOG
Catalog No.:	AM09023PU-S
Quantity:	50 µl
Concentration:	1.0 mg/ml
Background:	Nanog is a multidomain homeobox transcription factor that functions to maintain the undifferentiated state of pluripotent stem cells. Nanog expression counteracts the differentiation-promoting signals induced by the extrinsic factors LIF, Stat3 and BMP. When Nanog expression is downregulated, cell differentiation can proceed. Proteins that regulate Nanog expression include transcription factors Oct4, SOX2, FoxD3, and Tcf3 and tumor suppressor p53.
Uniprot ID:	Q9H9S0
NCBI:	NP_079141.2
GeneID:	100293888
Host / Isotype:	Mouse / IgG2a
Clone:	5A10
Immunogen:	Recombinant Human Nanog (1-154 aa) purified from E. coli
Format:	State: Liquid purified Ig fraction Purification: Protein-G affinity chromatography Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide
Applications:	ELISA. Western blot (1/500-1/2,000). Immunohistochemistry on Paraffin Sections (1/50-1/1000). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody recognizes NANOG. Species: Human, Mouse. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Tay Y., et al. (2008) Nature. 455(7216):1124-8- 2. Chiou SH., et al. (2008) Clin Cancer Res. 14(13):4085-95. 3. Boer B., et al. (2008) Mol Reprod Dev.

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Material Safety Datasheets are available at www.acris-antibodies.com or on request.

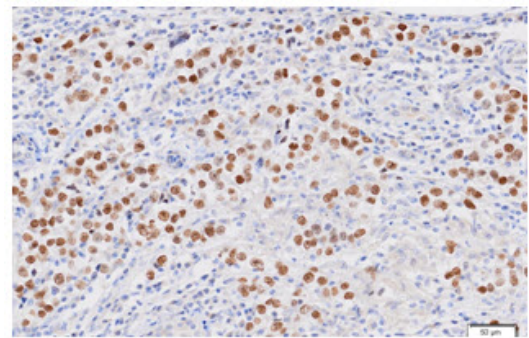
Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Pictures:

Western blot analysis: The cell lysates of NIH3T3 (35 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Nanog (1/500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: Paraffin Embedded Sections of Human seminoma tissue were incubated with anti-Human Nanog (1/50) for 2 hours at RT. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).



Human seminoma tissue

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