

Product datasheet for **AM09023PU-N**

NANOG (1-154) Mouse Monoclonal Antibody [Clone ID: 5A10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5A10
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	ELISA. Western blot (1/500-1/2,000). Flow Cytometry. Immunohistochemistry on Paraffin Sections (1/50-1/100).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Human Nanog (1-154 aa) purified from E. coli
Specificity:	The antibody recognizes NANOG.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	Nanog homeobox
Database Link:	Entrez Gene 79923 Human Q9H9S0



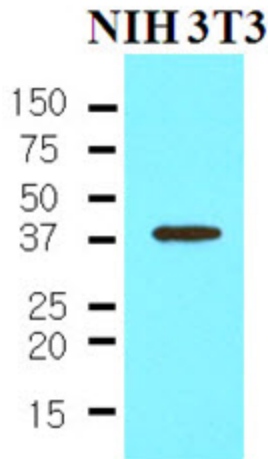
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Background:

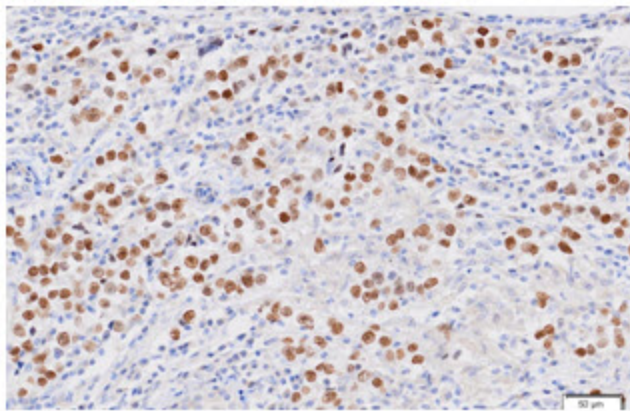
Nanog is a multidomain homeobox transcription factor that functions to maintain the undifferentiated state of pluripotent stem cells. Nanog expression counteracts the differentiation-promoting signals induced by the extrinsic factors LIF, Stat3 and BMP. When Nanog expression is downregulated, cell differentiation can proceed. Proteins that regulate Nanog expression include transcription factors Oct4, SOX2, FoxD3, and Tcf3 and tumor suppressor p53.

Synonyms:

FLJ12581; FLJ40451; hNanog

Product images:

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.



Human seminoma tissue

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).