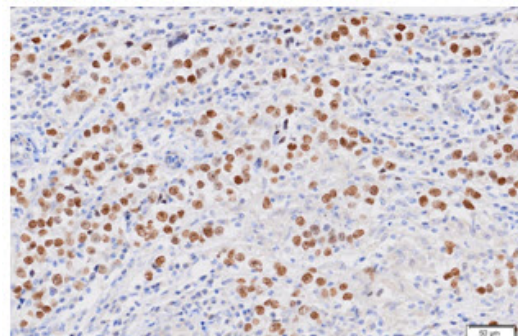


AM09023PU-S**Monoclonal Antibody to NANOG (1-154) - Purified**

| | |
|--------------------------------------|---|
| Alternate names: | Homeobox protein NANOG |
| 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: | 79923 |
| Host / Isotype: | Mouse / IgG2a |
| Recommended Isotype Controls: | AM03096PU-N |
| 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 0.02% Sodium Azide and 10% Glycerol |
| Applications: | ELISA. Western blot (1/500-1/2,000). Flow Cytometry. Immunohistochemistry on Paraffin Sections (1/50-1/100). 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 up to two weeks 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. |

Pictures:

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

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.

