

## Product datasheet for **AM11049SU-N**

### **NANOG Mouse Monoclonal Antibody [Clone ID: 60CT70.5.12]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	60CT70.5.12
Applications:	IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1,000. <b>Western blot:</b> 1/1,000. <b>Immunohistochemistry:</b> 1/10-1/50.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	This antibody is generated from mouse immunized with Human recombinant NANOG protein.
Specificity:	This antibody is specific to Human NANOG.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) Sodium Azide
Concentration:	lot specific
Purification:	Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	34620 Da
Gene Name:	Nanog homeobox
Database Link:	<a href="#">Entrez Gene 79923 Human Q9H9S0</a>



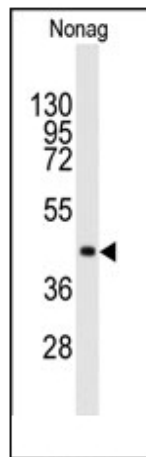
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**Background:**

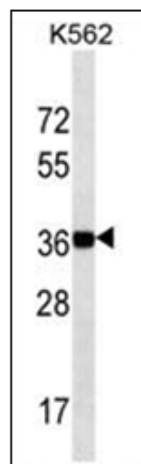
NANOG is a transcription regulator involved in inner cell mass and embryonic stem (ES) cell proliferation and self-renewal. It imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophoctoderm lineages. This protein blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes. NANOG acts as a transcriptional activator or repressor. It binds optimally to the DNA consensus sequence 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3'. When overexpressed, this protein promotes cells to enter into S phase and proliferation.

**Synonyms:**

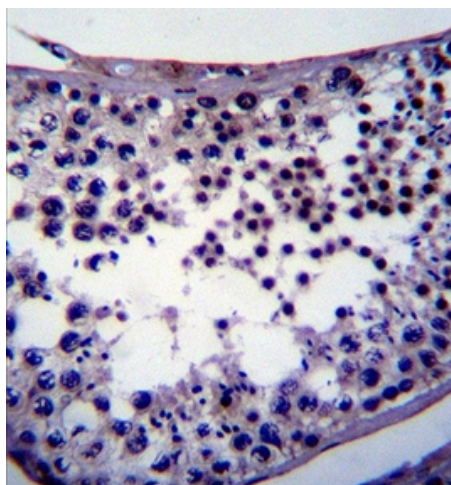
FLJ12581; FLJ40451; hNanog

**Product images:**

Western Blot analysis of anti-NANOG monoclonal antibody by NONAG recombinant protein. NANOG (NANOG + His tag) (arrow) was detected using the Mab.



Western blot analysis of anti-NANOG monoclonal antibody in K562 cell line lysates using (35ug/lane). This demonstrates the NANOG antibody detected the NANOG protein (arrow).



Immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue using anti-NANOG monoclonal antibody followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of NANOG Antibody for immunohistochemistry. Clinical relevance has not been evaluated.