

## 10-6524: Mouse Monoclonal Antibody to NANOG (Clone: 60CT77.1.1)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	60CT77.1.1
<b>Application :</b>	WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	NANOG
<b>Gene ID :</b>	79923
<b>Uniprot ID :</b>	Q9H9S0
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog, NANOG
<b>Isotype :</b>	Mouse IgG1,Kappa
<b>Immunogen Information :</b>	Recombinant Protein

### Description

Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophectoderm lineages. 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 (By similarity). Acts as a transcriptional activator or repressor (By similarity). Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG][GC]ATTAN[GC]-3' (By similarity). When overexpressed, promotes cells to enter into S phase and proliferation.

### Product Info

<b>Amount :</b>	80 µl / 400 µl
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
<b>Storage condition :</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles.

### Application Note

WB~1:100~250|| IHC-P~1:10~50

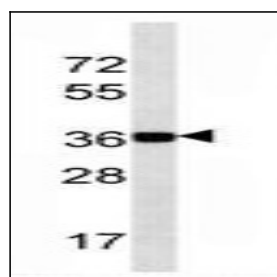


Figure 1: Western blot analysis of NANOG antibody (10-6524) in K562 cell line lysates (35µg/lane). This demonstrates the NANOG antibody detected the NANOG protein.

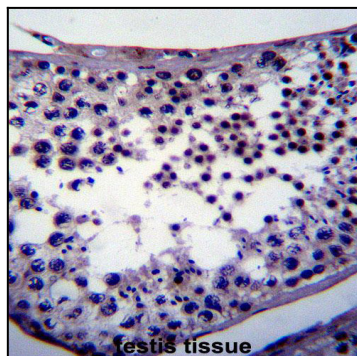


Figure 2: Immunohistochemistry analysis of NANOG antibody (10-6524) in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of NANOG Antibody for immunohistochemistry. Clinical relevance has not been evaluated.

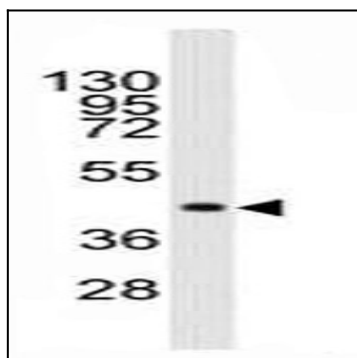


Figure 3: Western blot analysis of anti-NANOG monoclonal antibody (10-6524) by NANOG recombinant protein. NANOG (NANOG + His tag) was detected using the Mab.