

Product datasheet for **AM06293SU-N**

NANOG (20-166) Mouse Monoclonal Antibody [Clone ID: 1E6C4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1E6C4
Applications:	ELISA, IF, WB
Recommended Dilution:	ELISA: 1/10000. Western Blot: 1/500-1/2000. Immunofluorescence: 1/200-1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of NANOG (aa20-166) expressed in E. Coli.
Specificity:	Recognizes NANOG/Nanog homeobox
Formulation:	State: Ascites State: Ascitic fluid Preservative: 0.03% Sodium Azide
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:	35 kDa
Gene Name:	Nanog homeobox
Database Link:	Entrez Gene 79923 Human Q9H9S0



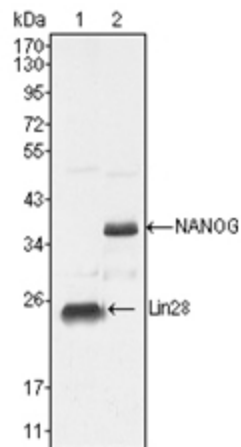
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Background:

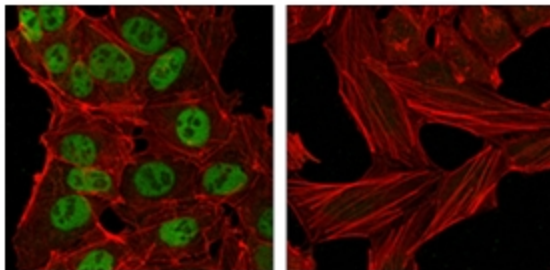
Nanog is a divergent homeodomain protein that directs pluripotency and differentiation of undifferentiated embryonic stem cells. Nanog mRNA is present in pluripotent mouse and human cell lines, and absent from differentiated cells. Human Nanog protein shares 52% overall amino acid identity with the mouse protein and 85% identity in the homeodomain. Human Nanog maps to gene locus 12p13.31, whereas mouse Nanog maps to gene loci 6 F2. Murine embryonic Nanog expression is detected in the inner cell mass of the blastocyst. High levels of human Nanog expression were detected by Northern analysis in the undifferentiated N-Tera embryonal carcinoma cell line.

Synonyms:

FLJ12581; FLJ40451; hNanog

Product images:

Western blot analysis using NANOG antibody Cat.-No AM06293SU-N against NTERA-2 cell lysate (2).



Confocal Immunofluorescence analysis of NTERA-2 cells (left) and HeLa cells (right) using Nanog antibody Cat.-No AM06293SU-N (green). Red: Actin filaments have been labeled with DY-554 phalloidin.