

# Nanog Ab

[Images\(3\)](#)

Cat.#: AF4011	Concn.: ~1mg/ml	Mol.Wt.: 42kd
Size:	Source: Rabbit	Clonality: Polyclonal

**Application:** WB 1:500-1:2000  
 \*The optimal dilutions should be determined by the end user.

**Reactivity:** Human,Mouse

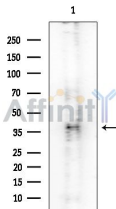
**Storage:** Supplied at 1.0mg/mL in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

**Purification:** The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

**Immunogen:** A synthesized peptide derived from human Nanog, corresponding to a region within the internal amino acids.

**Uniprot:** Q9H9S0

**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 trophoctoderm 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



Western blot analysis of extracts from Rat brain, using Nanog Ab at 1/1000 dilution.  
 Observed bands:38kD.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.



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