

Nanog Ab

Cat.#: AF4011 Concn.: 1mg/ml Mol.Wt.: 42kd Size: 50ul,100ul,200ul Source: Rabbit Clonality: Polyclonal

Application: WB 1:500-1:2000

Reactivity: Human, Mouse

Purification: The antiserum was purified by peptide affinity

chromatography using SulfoLink™ Coupling Resin (Thermo

Fisher Scientific).

Specificity: The Ab detects endogenous level of total Nanog protein.

Immunogen: Peptide sequence around aa.137~141 (K-Q-V-K-T) derived

from Nano g.

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 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]C[GC]ATTAN[GC]-3' By similarity. When overexpressed, promotes cells to enter into S phase and

proliferation

Subcellular Location: Nucleus.

Tissue Specificity: Expressed in testicular carcinoma and derived germ cell

tumors (at protein level). Expressed in fetal gonads, ovary and testis. Also expressed in ovary teratocarcinoma cell line and testicular embryonic carcinoma. Not expressed in many

somatic organs and oocytes.

Similarity: Belongs to the Nanog homeobox family.

Storage Condition and

Buffer:

Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide

and 50% glycerol.



Affinity Biosciences website:www.affbiotech.com order:order@affbiotech.com



Western blot analysis of extracts from human Umbilical cord mesenchymal stem cell using Nano g Ab

<code>IMPORTANT:</code> For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween020 at 4° C with gentle shaking, overnight.

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