

NANOG Antibody (Center)

Catalog_no :	AB3302
Reactivity :	H
Category :	抗原抗体
Size :	100μL/50μL
Immunogen :	HUMAN
Specificity :	This NANOG antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 155-189 amino acids from the Central region of human NANOG.
Dilution :	WB,1:2000;WB,1:2000;
Other_name :	Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog, NANOG
Isotype :	Rabbit Ig
Background :	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. Acts as a transcriptional activator or repressor. Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3'. Able to autorepress its expression in differentiating (ES) cells: binds to its own promoter following interaction with ZNF281/ZFP281, leading to recruitment of the NuRD complex and subsequent repression of expression. When overexpressed, promotes cells to enter into S phase and proliferation.
reference :	Mitsui K.,et al.Cell 113:631-642(2003). Clark A.T.,et al.Stem Cells 22:169-179(2004). Kim J.S.,et al.Exp. Mol. Med. 37:601-607(2005). Ota T.,et al.Nat. Genet. 36:40-45(2004). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.