

Mouse anti-Human NANOG Monoclonal Antibody | anti-NANOG antibody

NANOG Antibody

CATALOG # AAA283439	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

NANOG; Monoclonal Antibody; NANOG Antibody; Homeobox protein NANOG; Homeobox transcription factor Nanog; hNanog; anti-NANOG antibody

PRODUCT SPECIFICATIONS

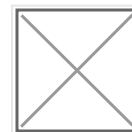
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	60CT77.1.1
Specificity	This NANOG monoclonal antibody is generated from mouse immunized with NANOG recombinant protein.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 0.25 (varies by lot)
Sequence Length	289
Applicable Applications for anti-NANOG antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Recombinant Protein
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



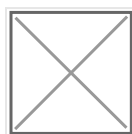
WB (Western Blot)

Western blot analysis of anti-NANOG monoclonal antibody by NANOG recombinant protein. NANOG (NANOG + His tag)(arrow) was detected using the Mab.



IHC (Immunohistochemistry)

NANOG Antibody immunohistochemistry analysis 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.



WB (Western Blot)

NANOG western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the NANOG antibody detected the NANOG protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-NANOG antibody	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]C[GC]ATTAN[GC]-3' (By similarity). When overexpressed, promotes cells to enter into S phase and proliferation (By similarity).
Product Categories/Family for anti-NANOG antibody	Cancer ; Developmental biology ; Signal transduction
References	Trubiani, O., et al. J. Cell. Physiol. 225(1):123-131(2010) Po, A., et al. EMBO J. 29(15):2646-2658(2010) Zbinden, M., et al. EMBO J. 29(15):2659-2674(2010) Moretto-Zita, M., et al. Proc. Natl. Acad. Sci. U.S.A. 107(30):13312-13317(2010) Kuijk, E.W., et al. PLoS ONE 5 (6), E10987 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	153945816
NCBI GeneID	79923
NCBI Accession #	NP_079141.2
NCBI GenBank Nucleotide #	NM_024865.3
UniProt Accession #	Q9H9S0 ; Q2TTG0 ; Q6JZS5 ; D3DUU4
Molecular Weight	34620
NCBI Official Full Name	homeobox protein NANOG isoform 1
NCBI Official Synonym Full Names	Nanog homeobox
NCBI Official Symbol	NANOG
NCBI Protein Information	homeobox protein NANOG
UniProt Protein Name	Homeobox protein NANOG
UniProt Gene Name	NANOG
UniProt Synonym Gene Names	hNanog
UniProt Entry Name	NANOG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/nanog-antibody-clone-60ct77-1-1-immunohistochemistry-western-blot-elisa/283439>