

Mouse anti-Human, Mouse Nanog Monoclonal Antibody | anti-Nanog antibody

Nanog antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48024	Mouse	Human, Mouse	Immunohistochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

Nanog; Monoclonal Antibody; Nanog antibody; Nanog homeobox; FLJ12581; FLJ40451; anti-Nanog antibody

PRODUCT SPECIFICATIONS

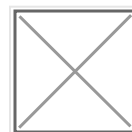
Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	5A10
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	305
Applicable Applications for anti-Nanog antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human Nanog (1-154aa) purified from E. coli
Clone Note	Anti-human Nanog mAb, clone 5A10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Nanog protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IHC (Immunohistochemistry)

Paraffin embedded sections of human seminoma tissue were incubated with anti-human Nanog (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)



WB (Western Blot)

The cell lysates of NIH3T3 (35ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Nanog (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-Nanog antibody	Nanog is a multidomain homeobox transcription factor that functions to maintain the undifferentiated state of pluripotent stem cells. Nanog expression counteracts the differentiation-promoting signals induced by the extrinsic factors LIF, Stat3 and BMP. When Nanog expression is downregulated, cell differentiation can proceed. Proteins that regulate Nanog expression include transcription factors Oct4, SOX2, FoxD3, and Tcf3 and tumor suppressor p53.
Product Categories/Family for anti-Nanog antibody	Immunology
References	Tay Y., et al. (2008) Nature. 455 (7216):1124-8; Chiou SH., et al. (2008) Clin Cancer Res. 14 (13):4085-95; Boer B., et al. (2008) Mol Reprod Dev.

NCBI AND UNIPROT INFORMATION

NCBI GI #	153945816
NCBI GeneID	79923
NCBI Accession #	NP_079141
NCBI GenBank Nucleotide #	NM_024865.3
UniProt Accession #	Q9H9S0; Q2TTG0; Q6JZS5; D3DUU4
Molecular Weight	32,838 Da
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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/nanog-antibody-clone-5a10-immunohistochemistry-flow-cytometry-western-blot-elisa/48024>