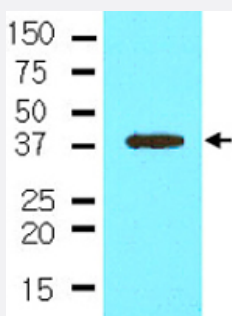


NANOG monoclonal antibody, clone 5A10

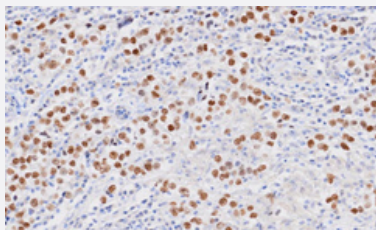
Catalog # MAB2042 Size 100 uL

Applications



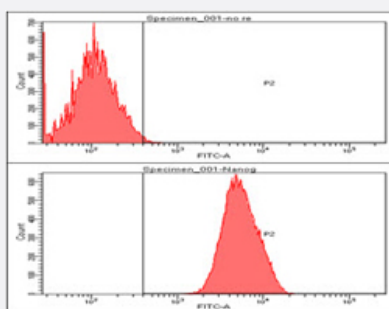
Western Blot (Cell lysate)

Western blot analysis of NIH/3T3 cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of human seminoma tissue were incubated with NANOG monoclonal antibody, clone 5A10 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).



Flow Cytometry

Flow cytometric analysis of Hep3B cell line, staining at 2-5 ug for 1x10⁶ cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.

Specification

Product Description

Mouse monoclonal antibody raised against partial recombinant NANOG.

Immunogen

Recombinant protein corresponding to amino acids 1-154 of human NANOG.

Host	Mouse
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Isotype	IgG2a, kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA Flow Cytometry Immunohistochemistry Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of NIH/3T3 cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of human seminoma tissue were incubated with NANOG monoclonal antibody, clone 5A10 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of Hep3B cell line, staining at 2-5 ug for 1×10^6 cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.

Gene Info — NANOG

Entrez GeneID	79923
Protein Accession#	NP_079141
Gene Name	NANOG
Gene Alias	-
Gene Description	Nanog homeobox
Omim ID	607937
Gene Ontology	Hyperlink
Other Designations	homeobox transcription factor Nanog homeobox transcription factor Nanog-delta 48

Publication Reference

- [MicroRNAs to Nanog, Oct4 and Sox2 coding regions modulate embryonic stem cell differentiation.](#)

Tay Y, Zhang J, Thomson AM, Lim B, Rigoutsos I.

Nature 2008 Oct; 455(7216):1124.

Application: WB-Tr, Mouse, HEK 293T cells, Mouse embryonic stem cells

- [Differential regulation of the Oct-3/4 gene in cell culture model systems that parallel different stages of mammalian development.](#)

Mallanna SK, Boer B, Desler M, Rizzino A.

Molecular Reproduction and Development 2008 Aug; 75(8):1247.

- [Positive correlations of Oct-4 and Nanog in oral cancer stem-like cells and high-grade oral squamous cell carcinoma.](#)

Chiou SH, Yu CC, Huang CY, Lin SC, Liu CJ, Tsai TH, Chou SH, Chien CS, Ku HH, Lo JF.

Clinical Cancer Research 2008 Jul; 14(13):4085.

Application: IF, WB, Human, Human oral squamous cell carcinoma, OC3, OECM1, SAS