

Nanog Monoclonal Antibody (23D2-3C6)

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	23D2-3C6
Conjugate	Unconjugated
Immunogen	Full-length human recombinant protein expressed in bacteria
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA, 30% glycerol
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2536677

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:50 -1:100	5 Publications
Flow Cytometry (Flow)	Assay-dependent	1 Publication
Miscellaneous PubMed (Misc)	-	2 Publications

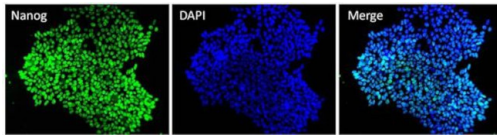
Product Specific Information

Western blot analysis of MA1-017 detects an ~38 kDa protein in embryonal carcinoma cells. Subcellular fractionation shows nuclear localization of Nanog. MA1-017 shows specificity to Nanog and is non-reactive to lysates from non-embryonal cell types (e.g. HeLa cell lysate).

Product Images For Nanog Monoclonal Antibody (23D2-3C6)

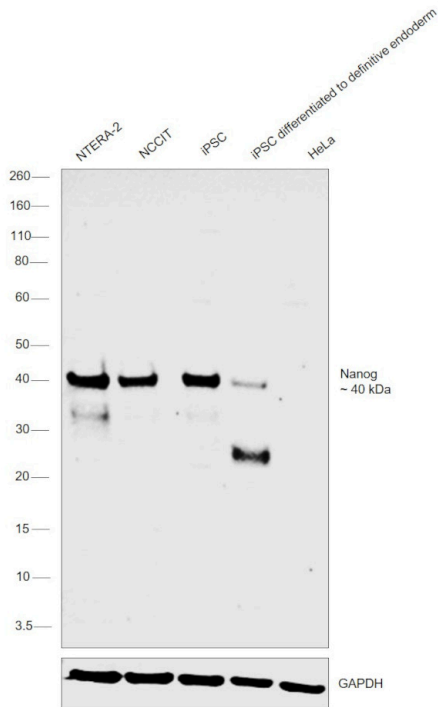
Nanog Antibody (MA1-017) in ICC/IF

Immunofluorescent analysis of Nanog (green) in H9 embryonic stem cells grown for a few days on Matrigel-coated chamber slides. Cells fixed in 4% paraformaldehyde were permeabilized with 0.1% Triton X-100 for 15 minutes at room temperature. Cells were probed with a Nanog monoclonal antibody (Product # MA1-017) at a dilution of 1:200 overnight at 4°C, washed with PBST, and incubated with a FITC-conjugated secondary antibody at a dilution of 1:100 for 1 hour at room temperature. Nuclei (blue) were stained with DAPI and cells were analyzed by fluorescence microscopy at 20X magnification.



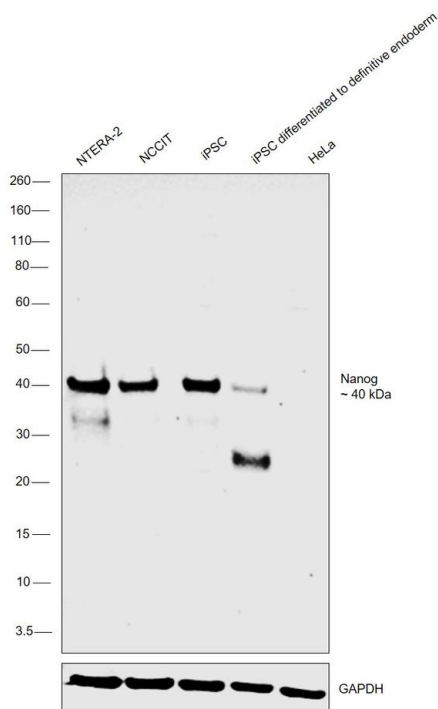
Nanog Antibody (MA1-017)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Western Blot analysis using Anti-Nanog Monoclonal Antibody (23D2-3C6) (Product # MA1-017) shows increased expression of Nanog in NTERA-2, NCCIT in comparison to HeLa, also the expression is decreased in iPSC upon differentiation to definitive endoderm. {RE}



Nanog Antibody (MA1-017) in WB

Western blot was performed using Anti-Nanog Monoclonal Antibody (23D2-3C6) (Product # MA1-017) and a 40 kDa band corresponding to Nanog was observed across all the cell lines tested except HeLa which is reported to be negative, also the expression was decreased in iPSC upon differentiation to definitive endoderm. Modified whole cell extracts (1% SDS) (30 µg lysate) of NTERA-2 (Lane 1), NCCIT (Lane 2), iPSC (Lane 3), iPSC differentiated to definitive endoderm (Lane 4) and HeLa (Lane 5) were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



10 References

Western Blot (1)

International journal of oncology	Year 2017
Fluid shear stress induces cancer stem cell-like phenotype in MCF7 breast cancer cell line without inducing epithelial to mesenchymal transition.	Species Human
"MA1-017 was used in Western Blotting to suggest that CTCs can be modeled in vitro as non-adherent cancer cells in FSS and that they show an increased CSC-like signature during circulation, providing new insights to the importance of CSC-targeting strategies when treating metastatic patients."	
Authors: Triantafillu UL,Park S,Klaassen NL,Raddatz AD,Kim Y	

Immunohistochemistry (1)

Frontiers in molecular neuroscience	Year 2023
Buprenorphine Exposure Alters the Development and Migration of Interneurons in the Cortex.	Species Human
"MA1-017 was used in Immunohistochemistry to suggest that more research is needed into the long-lasting consequences of buprenorphine exposure on the developing human brain."	
Authors: Nieto-Estévez V,Donegan JJ,McMahon CL,Elam HB,Chavera TA,Varma P,Berg KA,Lodge DJ,Hsieh J	
	Dilution 1:500

Immunocytochemistry (5)

Cell reports	Year 2022
TP53 promotes lineage commitment of human embryonic stem cells through ciliogenesis and sonic hedgehog signaling.	Species Human Mouse
"MA1-017 was used in Immunocytochemistry-immunofluorescence to probe the potential links among these cancer traits by inactivating TP53 in human embryonic stem cells (hESCs)."	
Authors: Sivakumar S,Qi S,Cheng N,Sathe AA,Kanchwala M,Kumar A,Evers BM,Xing C,Yu H	

Stem cell research	Year 2020
Generation of four induced pluripotent stem cell lines (FHUi003-A, FHUi003-B, FHUi004-A and FHUi004-B) from two affected individuals of a familial neurohypophyseal diabetes insipidus family.	Species Human
"MA1-017 was used in Immunocytochemistry, Flow Cytometry to produce disease-specific induced pluripotent stem cell lines that can aid disease recapitulation in vitro."	
Authors: Yoshida S,Okura H,Suga H,Soen M,Kawaguchi Y,Kurimoto J,Miyata T,Takagi H,Arima H,Fujikawa T,Otsuka F, Matsuyama A	
	Dilution 1:1000

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More applications with references on thermofisher.cn

- Flow (1)
- Misc (2)

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