

# Product Datasheet

## Nanog Antibody (23D2-3C6)

### NBP2-22632

Unit Size: 100 ug

Store at -20C. Avoid freeze-thaw cycles.

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**NBP2-22632**

Nanog Antibody (23D2-3C6)

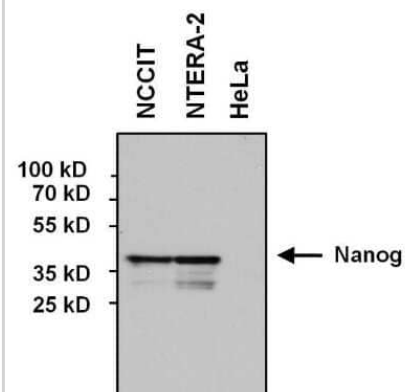
Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	23D2-3C6
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS, 1 mg/mL BSA, 30% glycerol

Product Description	
Description	Novus Biologicals Mouse Nanog Antibody (23D2-3C6) (NBP2-22632) is a monoclonal antibody validated for use in WB, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	79923
Gene Symbol	NANOG
Species	Human
Marker	Embryonic Stem Cell Marker
Specificity/Sensitivity	It shows specificity to Nanog and is non-reactive to lysates from non-embryonal cell types (e.g. HeLa cell lysate).
Immunogen	Full-length human recombinant protein expressed in bacteria

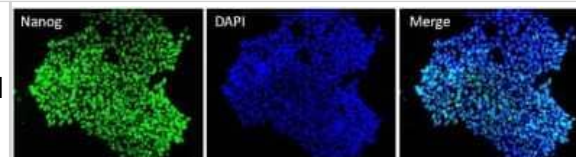
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500 - 1:2000, Flow Cytometry 1:10 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:50 - 1:100
Application Notes	WB: Detects a prominent approx. 38 kDa protein in embryonal carcinoma cells. Subcellular fractionation shows nuclear localization of Nanog.

**Images**

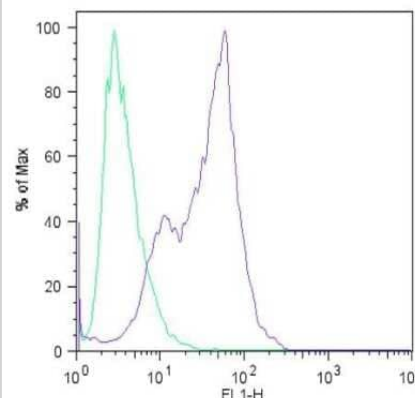
Western Blot: Nanog Antibody (23D2-3C6) [NBP2-22632] - Analysis of 60 ug of various whole cell lysates and 10ul of PageRuler Prestained Protein Ladder.



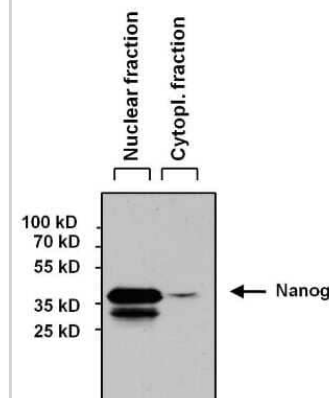
**Immunocytochemistry/Immunofluorescence: Nanog Antibody (23D2-3C6) [NBP2-22632]** - Analysis of Nanog (green) in H9 embryonic stem cells grown for a few days on Matrigel-coated chamber slides. Cells fixed in 4% paraformaldehyde were permeabilized with 0.1% Triton X-100 for 15 minutes at room temperature. Cells were probed with a Nanog monoclonal antibody at a dilution of 1:200 overnight at 4C, washed with PBST, and incubated with a fluorescein-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.



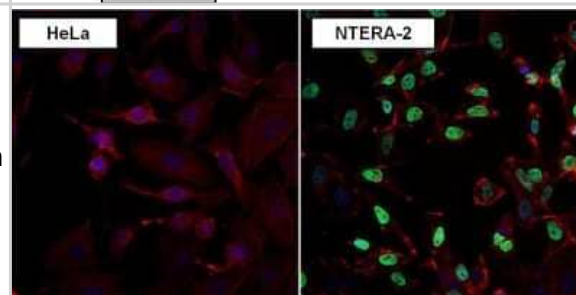
**Flow Cytometry: Nanog Antibody (23D2-3C6) [NBP2-22632]** - Analysis of Nanog (blue histogram) on H9 embryonic stem cells. To generate single cells suspensions, colonies were treated with TrypLE cell dissociation enzyme for 5 minutes at 37C. Cells were incubated with a Nanog monoclonal antibody or mouse IgG (green histogram) at a dilution of 1:100 for 1 hour on ice, washed with PBS + 5% fetal calf serum (FACS buffer), and incubated with a fluorescein-conjugated secondary antibody at a dilution of 1:200 for 30 minutes on ice. Cells were washed with cold FACS buffer, resuspended in 500ul of FACS buffer containing 10ul of 4% paraformaldehyde.



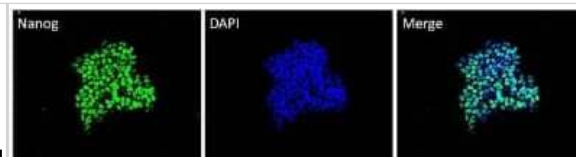
**Western Blot: Nanog Antibody (23D2-3C6) [NBP2-22632]** - Analysis of 60 ug of NCCIT nuclear and cytoplasmic fractions lysates and 10ul of PageRuler Prestained Protein Ladder



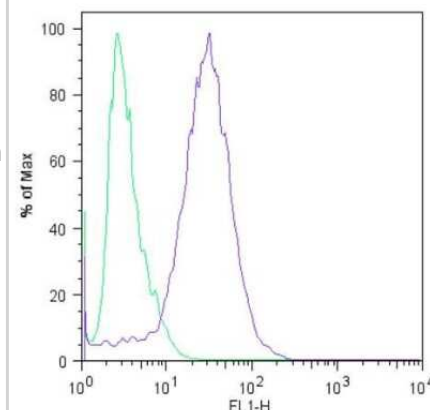
**Immunocytochemistry/Immunofluorescence: Nanog Antibody (23D2-3C6) [NBP2-22632]** - Analysis of Nanog (green) in NTERA-2 and HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with a Nanog monoclonal antibody at a dilution of 1:50 for at least 1 hour at room temperature, washed with PBS, and incubated with a DyLight 488-conjugated goat anti-mouse IgG secondary antibody. F-Actin (red) was stained with DyLight-554 Phalloidin and nuclei (blue) were stained with Hoechst 33342 dye.



**Immunocytochemistry/Immunofluorescence: Nanog Antibody (23D2-3C6) [NBP2-22632]** - Analysis of Nanog (green) in HEL 11.4 induced IPS 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 at a dilution of 1:200 overnight at 4C, washed with PBST, and incubated with a fluorescein-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.



**Flow Cytometry: Nanog Antibody (23D2-3C6) [NBP2-22632]** - Analysis of Nanog (blue histogram) on HEL 11.4 induced IPS cells. To generate single cells suspensions, colonies were treated with TrypLE cell dissociation enzyme for 5 minutes at 37C. Cells were incubated with a Nanog monoclonal antibody or mouse IgG (green histogram) at a dilution of 1:100 for 1 hour on ice, washed with PBS + 5% fetal calf serum (FACS buffer), and incubated with a fluorescein-conjugated secondary antibody at a dilution of 1:200 for 30 minutes on ice. Cells were washed with cold FACS buffer, resuspended in 500ul of FACS buffer containing 10ul of 4% paraformaldehyde.





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### **Products Related to NBP2-22632**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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