

# Product Datasheet

## Nanog Antibody (23D2-3C6)

### NBP2-22632-0.025mg

Unit Size: 0.025 mg

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

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**NBP2-22632-0.025mg**

Nanog Antibody (23D2-3C6)

**Product Information**

<b>Unit Size</b>	0.025 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	23D2-3C6
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS, 1 mg/mL BSA, 30% glycerol

**Product Description**

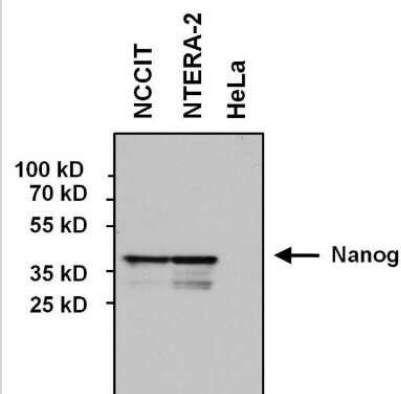
<b>Description</b>	Novus Biologicals Mouse Nanog Antibody (23D2-3C6) (NBP2-22632) is a monoclonal antibody validated for use in WB, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	79923
<b>Gene Symbol</b>	NANOG
<b>Species</b>	Human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

**Product Application Details**

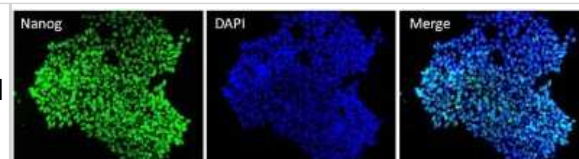
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:500 - 1:2000, Flow Cytometry 1:10 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:50 - 1:100
<b>Application Notes</b>	WB: Detects a prominent approx. 38 kDa protein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

**Images**

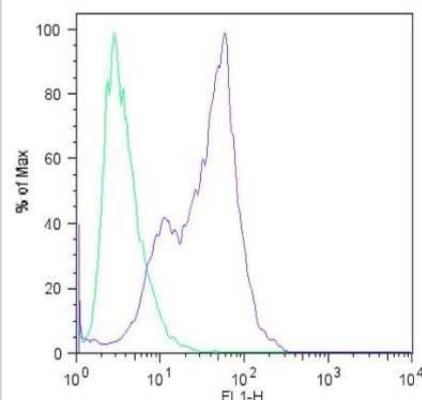
Western Blot: Nanog Antibody (23D2-3C6) [NBP2-22632] - Analysis of 60 ug of various whole cell lysates and 10ul of PageRuler Prestained Protein Ladder.



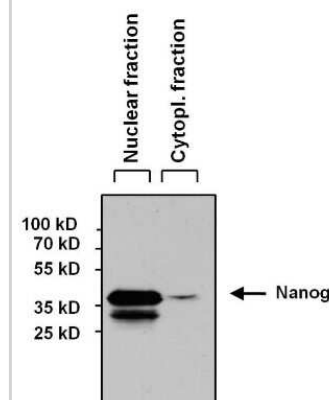
**Immunocytochemistry/Immunofluorescence: Nanog Antibody (23D2-3C6) [NBP2-22632]** - Analysis of Nanog (green) in H9 embryonic stem cells grown for a few days on Matrigel-coated chamber slides. Cells fixed in 4% paraformaldehyde were permeabilized with 0.1% Triton X-100 for 15 minutes at room temperature.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



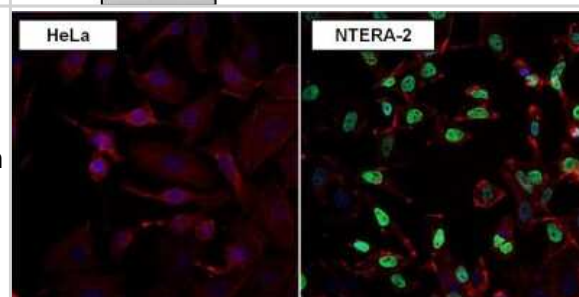
**Flow Cytometry: Nanog Antibody (23D2-3C6) [NBP2-22632]** - Analysis of Nanog (blue histogram) on H9 embryonic stem cells. To generate single cells suspensions, colonies were treated with TrypLE cell dissociation enzyme for 5 minutes at 37°C. Cells were incubated with a Nanog monoclonal antibody or 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



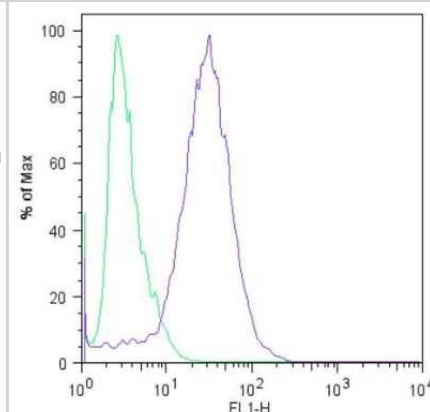
**Immunocytochemistry/Immunofluorescence: Nanog Antibody (23D2-3C6) [NBP2-22632]** - Analysis of Nanog (green) in NTERA-2 and HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were blocked with 1% Blocker BSA for 15 minutes at 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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### **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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