

# Product Datasheet

## Nestin Antibody (10C2) - Azide and BSA Free NBP2-80869

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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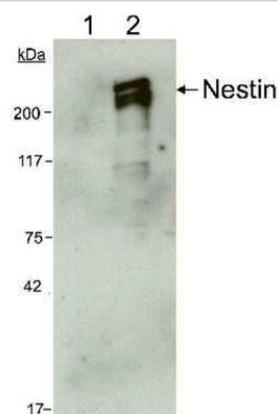
**NBP2-80869**

Nestin Antibody (10C2) - Azide and BSA Free

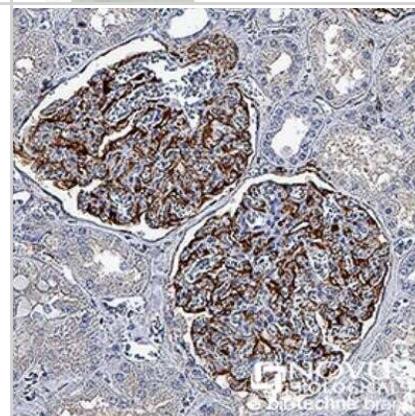
Product Information	
Unit Size	0.1 ml
Concentration	2.4 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	10C2
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	10763
Gene Symbol	NES
Species	Human, Mouse, Rabbit (Negative), Rat (Negative)
Reactivity Notes	It does not cross-react in rat or rabbit.
Immunogen	A fragment of the human Nestin protein corresponding to residues 1464-1614. [UniProt P48681]
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready, Immunocytochemistry
Recommended Dilutions	Western Blot 1:1000 - 1:5000, Flow Cytometry 1 ug per million cells, Immunohistochemistry 1:100 - 1:200, Immunocytochemistry/ Immunofluorescence 1:50 - 1:200, Immunohistochemistry-Paraffin 1:100 - 1:200, Immunohistochemistry-Frozen 1:100 - 1:200, Immunocytochemistry, CyTOF-ready
Application Notes	This Nestin (10C2) antibody is useful for Immunohistochemistry on formaldehyde fixed cultured cells and formalin fixed paraffin-embedded tissue sections. In Western blot a doublet band is seen at ~220-240 kDa. The investigator should determine the optimal working dilution for a specific application. This antibody is CyTOF ready.

## Images

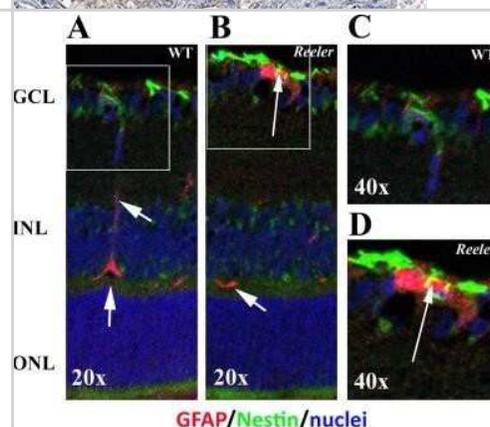
**Western Blot: Nestin Antibody (10C2) - Azide and BSA Free [NBP2-80869]** - WB analysis of 5 ug lysate from (1) Rat's total brain tissue, and (2) human CNS progenitor cells using Nestin antibody (clone 10C2) at 1:1000 dilution. The antibody did not react with rat, whereas, in lysate from human samples, it generated a doublet band representing the phosphorylated and the non-phosphorylated forms of Nestin protein. Image from the standard format of this antibody.



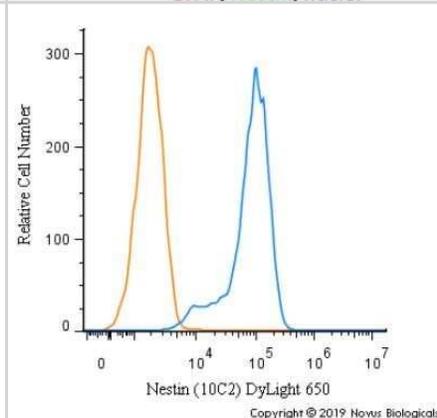
**Immunocytochemistry: Nestin Antibody (10C2) - Azide and BSA Free [NBP2-80869]** - Nestin was detected in immersion fixed paraffin-embedded sections of human kidney using anti-human mouse monoclonal antibody (Catalog # NB300-266) at 1:500 dilution overnight at 4C. Tissue was stained using the VisuCyte anti-mouse HRP polymer detection re



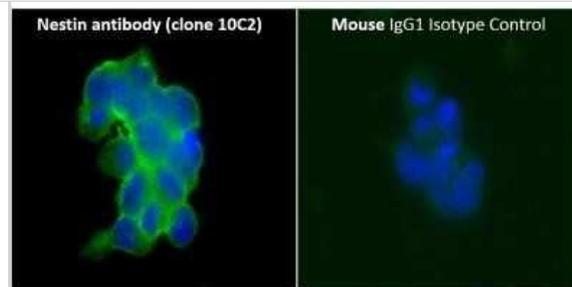
**Immunohistochemistry: Nestin Antibody (10C2) - Azide and BSA Free [NBP2-80869]** - GFAP and Nestin immunoreactivity in retinal sections. Epifluorescent acquisition of p28 Reeler and WT retinas. (A-D) As compared to WT, both GFAP (red) and Nestin (green) immunoreactivities were highly visible in Reeler retinas (AB, GCL). Arrows point at



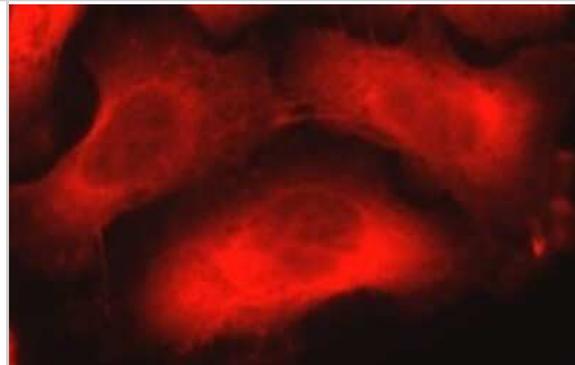
**Flow Cytometry: Nestin Antibody (10C2) - Azide and BSA Free [NBP2-80869]** - An intracellular stain was performed on SH-SY5Y cells with Nestin [10C2] Antibody NB300-266C (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to DyLight 650.



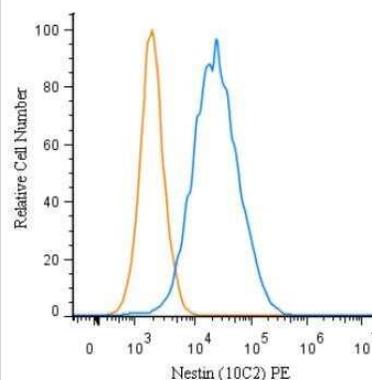
Immunocytochemistry/Immunofluorescence: Nestin Antibody (10C2) - Azide and BSA Free [NBP2-80869] - Analysis of formalin fixed, 0.1% Triton X-100 permeabilized F9 cells (Mouse teratocarcinoma) using Nestin antibody (clone 10C2) at 1:50 dilution. The primary antibody was detected using Alexa Fluor 488 labeled donkey anti-mouse IgG (H+L) cross-adsorbed secondary antibody (green) and nuclei were counterstained with DAPI (blue). An isotype control set was incubated with mouse IgG1 isotype control antibody and the above mentioned secondary antibody. Nestin antibody (clone 10C2) generated a specific membrane-cytoplasmic staining of Nestin while the isotype control samples did not show any staining under same assay conditions. Image from the standard format of this antibody.



Immunocytochemistry/Immunofluorescence: Nestin Antibody (10C2) - Azide and BSA Free [NBP2-80869] - Visualization of Nestin in PC-3 cells using NB300-266. Courtesy of Dolnick Lab, Roswell Park Cancer Institute. Image from the standard format of this antibody.

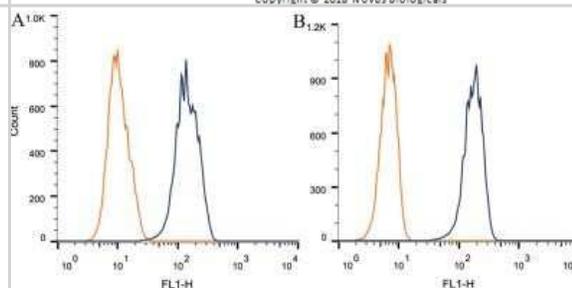


Flow Cytometry: Nestin Antibody (10C2) - Azide and BSA Free [NBP2-80869] - An intracellular stain was performed on HeLa cells with Nestin Antibody (10C2)NB300-266PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to phycoerythrin.



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Flow Cytometry: Nestin Antibody (10C2) - Azide and BSA Free [NBP2-80869] - Intracellular flow cytometric staining of  $1 \times 10^6$  CHO (A) and HEK-293 (B) cells using Nestin antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/ $1 \times 10^6$  cells was used. Image from the standard format of this antibody.





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### **Products Related to NBP2-80869**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-59775PEP	Nestin Recombinant Protein Antigen

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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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