

Product Datasheet

Nestin Antibody (10C2) - BSA Free NB300-266SS

Unit Size: 0.025 ml

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

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NB300-266SS

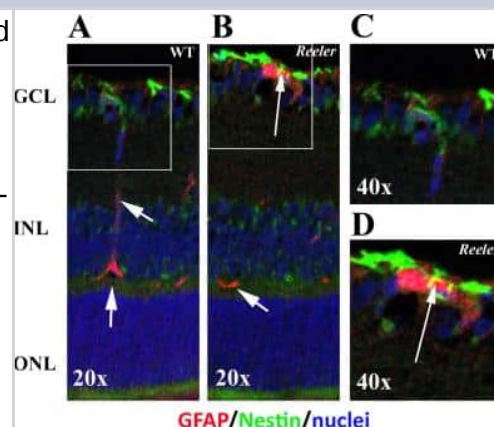
Nestin Antibody (10C2) - BSA Free

Product Information	
Unit Size	0.025 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	0.1% Sodium Azide
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	This antibody does not cross-react with rat or rabbit.
Marker	Neural Stem Cell Marker
Immunogen	A fragment of the human Nestin protein corresponding to residues 1464-1614. [UniProt P48681]
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready
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, 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.

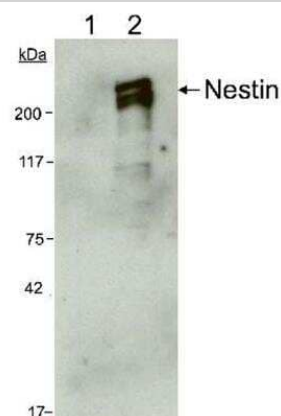


Images

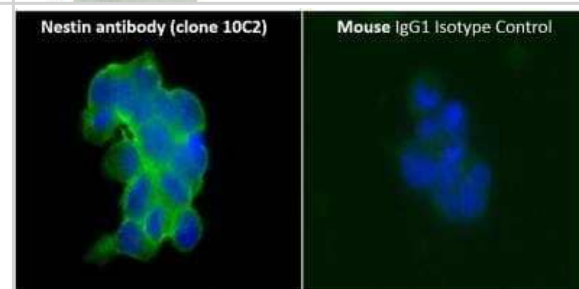
Immunohistochemistry: Nestin Antibody (10C2) [NB300-266] - GFAP and Nestin immunoreactivity in retinal sections. Epifluorescent acquisition of p28 Reeler and WT retinas. (A-D) As compared to WT, both GFAP (red) and Nestin (green) immunoreactivities were highly visible in Reeler retinas (AB, GCL). Arrows point at yellow immunoreactivity in the white frame (B) indicating GFAP and Nestin co-expression in cells having long-filaments (activated Muller cells), as compared to wild type (arrowheads in A). Nuclei were DAPI counterstained (blue). Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0212732](https://doi.org/10.1371/journal.pone.0212732)) licensed under a CC-BY license.



Western Blot: Nestin Antibody (10C2) [NB300-266] - 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.

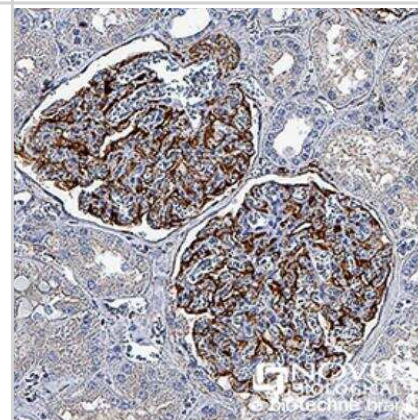


Immunocytochemistry/Immunofluorescence: Nestin Antibody (10C2) [NB300-266] - Analysis of formalin fixed, 0.1% Triton X-100 permeabilized F9 cells (Mouse teratocarcinoma) using Nestin antibody (clone 10C2) at 1:50 dilution. The primary antibody was detected using Alexa Fluor 488 labeled donkey anti-mouse 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.

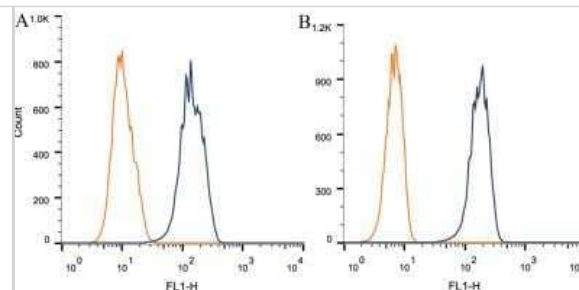


Immunohistochemistry-Paraffin: Nestin Antibody (10C2) [NB300-266] - Nestin was detected in immersion fixed paraffin-embedded sections of human kidney using anti-human mouse monoclonal antibody (Catalog # NB300-266) at 1:500 dilution overnight at 4C. Tissue was stained using the VisuCyte anti-mouse HRP polymer detection reagent (Catalog # VC001) with DAB chromogen (brown) and counterstained with hematoxylin (blue).

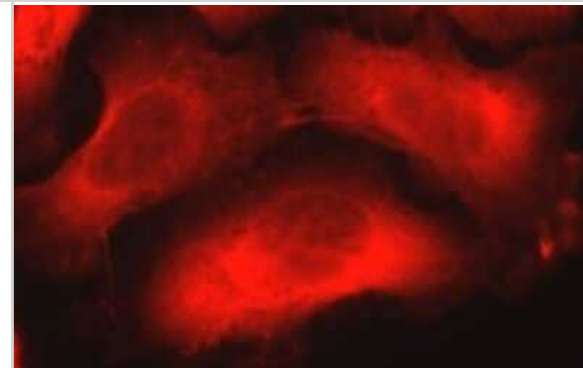
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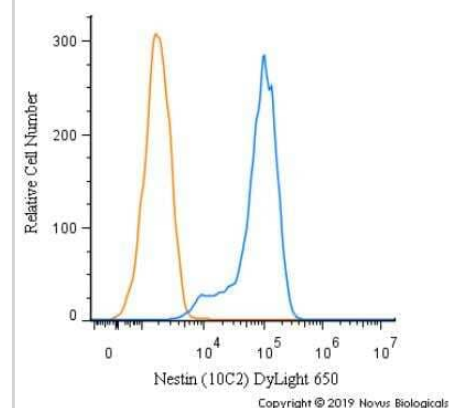
Flow Cytometry: Nestin Antibody (10C2) [NB300-266] - Intracellular flow cytometric staining of 1×10^6 CHO (A) and HEK-293 (B) cells using Nestin antibody (dark blue). Isotype control shown in orange. An antibody concentration of $1 \mu\text{g}/1 \times 10^6$ cells was used.



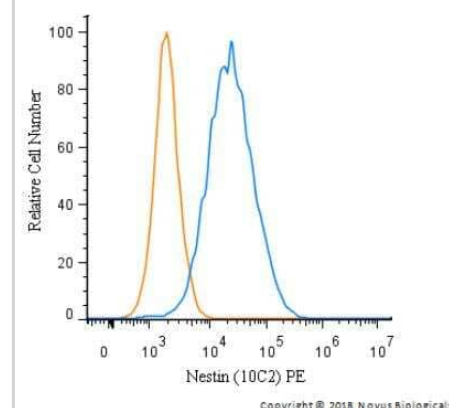
Immunocytochemistry/Immunofluorescence: Nestin Antibody (10C2) [NB300-266] - Visualization of Nestin in PC-3 cells using NB300-266. Courtesy of Dolnick Lab, Roswell Park Cancer Institute.



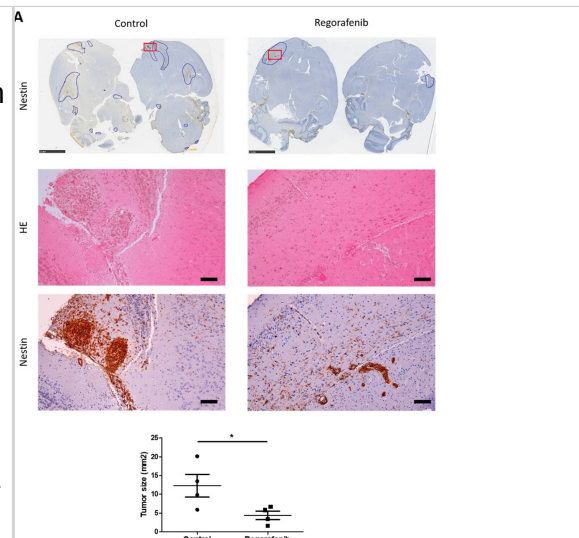
Flow Cytometry: Nestin Antibody (10C2) [NB300-266] - An intracellular stain was performed on SH-SY5Y cells with Nestin [10C2] Antibody NB300-266C (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution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



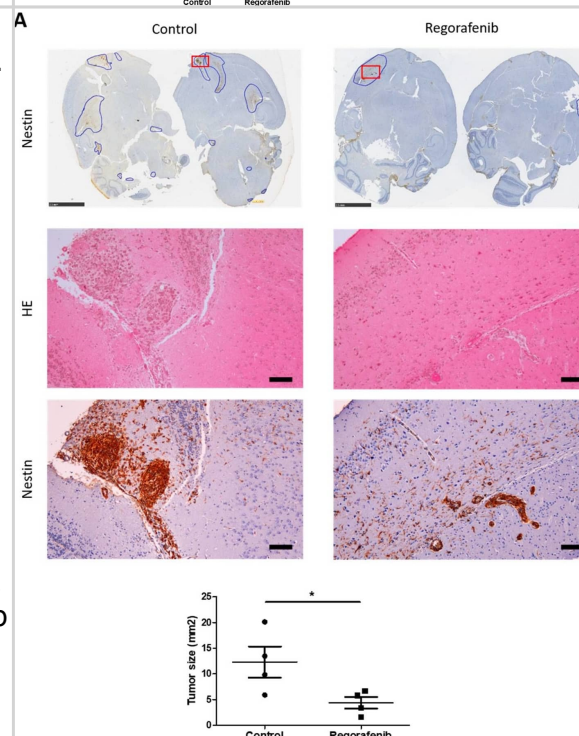
Flow Cytometry: Nestin Antibody (10C2) [NB300-266] - An intracellular stain was performed on HeLa cells with Nestin Antibody (10C2)NB300-266PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution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



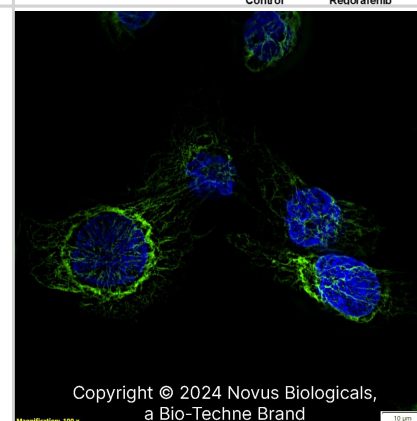
Immunohistochemistry: Nestin Antibody (10C2) - BSA Free [NB300-266]
 - Regorafenib inhibits tumour growth and vascularisation in xenograft mice. GC1 were implanted into the right forebrain of mice. The mice then received daily oral vehicle or regorafenib at 30 mg/kg for 45 days. Representative photographs of mice brain tumours treated with regorafenib (right panel) or without regorafenib (left panel) stained by hemalun-eosin (median panel) or with nestin antibody (upper and lower panel). The upper panel shows whole brains of mice stained with nestin antibody. The tumour areas were circled in blue, and each surface was measured in mm². The red rectangles indicate the zone of the tumour shown in median (hemalun-eosin staining) and lower (nestin IHC) panel. Scale bars, upper panel 2.5 mm, median and lower panel 100 µm. The graph shows the tumour size in mm² (expressed as the mean $\pm$ SEM of 4 mice). Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35326702/>) licensed under a CC-BY license.



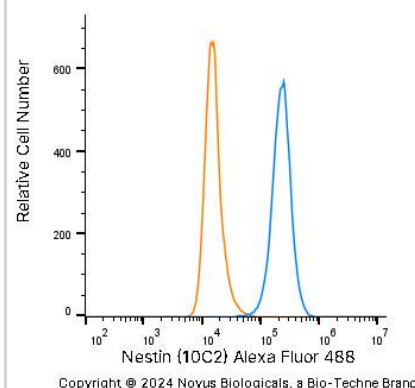
Immunohistochemistry: Nestin Antibody (10C2) - BSA Free [NB300-266]
 - Regorafenib inhibits tumour growth & vascularisation in xenograft mice. GC1 were implanted into the right forebrain of mice. The mice then received daily oral vehicle or regorafenib at 30 mg/kg for 45 days. (A) Representative photographs of mice brain tumours treated with regorafenib (right panel) or without regorafenib (left panel) stained by hemalun-eosin (median panel) or with nestin antibody (upper & lower panel). The upper panel shows whole brains of mice stained with nestin antibody. The tumour areas were circled in blue, & each surface was measured in mm². The red rectangles indicate the zone of the tumour shown in median (hemalun-eosin staining) & lower (nestin IHC) panel. Scale bars, upper panel 2.5 mm, median & lower panel 100 µm. The graph shows the tumour size in mm² (expressed as the mean $\pm$ SEM of 4 mice). (B) Representative immunohistochemistry photographs of CD31+ vessels in brain tumour areas of 3 different mice treated with regorafenib (right panel) or without regorafenib (control, left panel). Arrows indicate CD31+ blood vessels. Scale bars, 20 µm. The graph shows the number of CD31+ vessels in tumours per mm² (expressed as mean $\pm$ SEM of 4 mice). * $p < 0.05$. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35326702/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



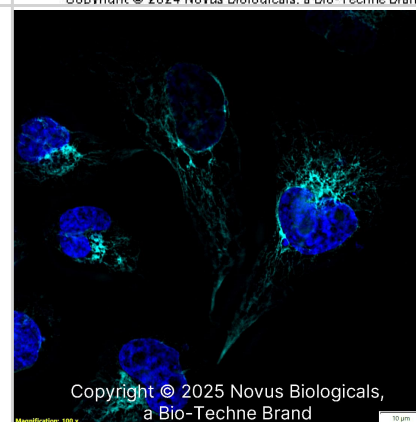
Nestin (10C2) was detected in immersion fixed SJCRH30 human Rhabdomyosarcoma cell line with Mouse anti-Nestin (10C2) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 488 (Catalog # NB300-266AF488) (green) at 5 µg/mL overnight at 4°C. Cells were counterstained with DAPI (dark blue). Cells were imaged using a 100X objective and digitally deconvolved.



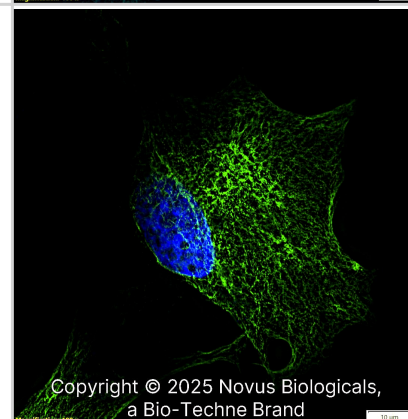
An intracellular stain was performed on SJCRH30 human Rhabdomyosarcoma cell line with Mouse anti-Nestin (10C2) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 488 (Catalog # NB300-266AF488, blue histogram) or matched control antibody (orange histogram) at 5 µg/mL for 30 minutes at RT.



Nestin (10C2) was detected in immersion fixed SJCRH30 human Rhabdomyosarcoma cell line with Mouse anti-Nestin (10C2) Protein-G purified Monoclonal Antibody conjugated to DyLight 650 (Catalog # NB300-266C) (light blue) at 5 µg/mL overnight at 4C. Cells were counterstained with DAPI (dark blue). Cells were imaged using a 100X objective and digitally deconvolved.



Nestin (10C2) was detected in immersion fixed SJCRH30 human Rhabdomyosarcoma cell line using Mouse anti-Nestin (10C2) Protein G-purified Monoclonal Antibody (Catalog # NB300-266) at 2.0 µg/mL overnight at 4C. Cells were stained using DyLight 488-conjugated Anti-Mouse IgG (H+L) Cross-Absorbed Secondary Antibody (green), and counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



Publications

García-Gómez P, Golán I, S Dadras M et al. NOX4 regulates TGF β -induced proliferation and self-renewal in glioblastoma stem cells Molecular oncology 2022-05-01 [PMID: 35203105] (IHC, Human)

Details:

Multi-plex staining; Dilutions: 1:800

Nawfal Al-hashimi Investigating the Effect of the Amelogenin Peptide C11 on Differentiation of Stem Cells of the Apical Papilla (SCAP) toward an Odontoblastic Phenotype: A Pilot Study in Regenerative Endodontics Thesis 2022-01-01 (IHC-P, Human)

Rothermund K, Calabrese TC, Syed-Picard FN Differential Effects of Escherichia coli- Versus Porphyromonas gingivalis-derived Lipopolysaccharides on Dental Pulp Stem Cell Differentiation in Scaffold-free Engineered Tissues Journal of endodontics 2022-11-01 [PMID: 36108879]

Adjei-Sowah EA, O'Connor SA, Veldhuizen J et al. Investigating the Interactions of Glioma Stem Cells in the Perivascular Niche at Single-Cell Resolution using a Microfluidic Tumor Microenvironment Model Advanced science (Weinheim, Baden-Wurtemberg, Germany) 2022-05-26 [PMID: 35619544] (ICC/IF, Human)

Deshors P, Arnauduc F, BoElle B et al. Impact of Regorafenib on Endothelial Transdifferentiation of Glioblastoma Stem-like Cells Cancers 2022-03-18 [PMID: 35326702] (IHC-P, Human)

Lo Cascio C, McNamara JB, Melendez EL et al. Nonredundant, isoform-specific roles of HDAC1 in glioma stem cells JCI insight 2021-09-08 [PMID: 34494550] (WB, Human)

Schmid B, Holst B, Clausen C et al. Generation of a set of isogenic iPSC lines carrying all APOE genetic variants (epsilon2/epsilon3/epsilon4) and knock-out for the study of APOE biology in health and disease Stem cell research 2021-02-02 [PMID: 33556820] (FLOW, ICC/IF)

Kim J, Koh H, Zhen X, et al. Establishment of iPSC (KRIBBi001-A) from CD34+ group O D-negative bone marrow blood Stem cell research 2021-01-26 [PMID: 33529979] (FLOW, ICC/IF, Human)

Heffernan J M, McNamara J B et al. PNIPAAm-co-Jeffamine (PNJ) scaffolds as in vitro models for niche enrichment of glioblastoma stem-like cells. Biomaterials 2017-01-10 [PMID: 28802102] (WB, Human)

Sabelstrom H, Petri R, Shchors K et al. Driving Neuronal Differentiation through Reversal of an ERK1/2-miR-124-SOX9 Axis Abrogates Glioblastoma Aggressiveness Cell Rep 2019-08-20 [PMID: 31433983] (ICC/IF, Mouse, Human)

Maxia Cristina, Murtas Daniela, Isola Michela et al. Immunophenotypic characterization of telocyte-like cells in pterygium. Molecular Vision 2018-12-29 [PMID: 30713424] (IHC-P, Human)

Adamska A, Pilacinski S, Zozulinska-Ziolkiewicz D et al. An increased skin microvessel density is associated with neurovascular complications in type 1 diabetes mellitus Diab Vasc Dis Res 2019-05-30 [PMID: 31144511] (IHC-P, Human)

More publications at <http://www.novusbio.com/NB300-266>





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Limitations

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