

# Product Datasheet

## Nestin Antibody - BSA Free

### NB300-265

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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**NB300-265**

Nestin Antibody - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.1% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

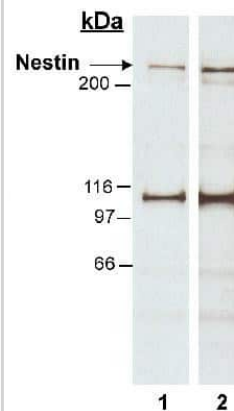
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	10763
<b>Gene Symbol</b>	NES
<b>Species</b>	Human, Canine, Mouse (Negative), Rabbit (Negative), Rat (Negative)
<b>Reactivity Notes</b>	Canine reactivity reported in scientific literature (PMID: 25088159) Does not cross-react with rodent.
<b>Marker</b>	Neural Stem Cell Marker
<b>Immunogen</b>	Recombinant human Nestin protein (corresponding to residues 1464-1614). [UniProt# P48681]

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:500-1:2000, Immunocytochemistry/ Immunofluorescence 1:100-1:500
<b>Application Notes</b>	This Nestin antibody may be used in Immunocytochemistry/Immunofluorescence and Western blot where a band is seen at ~220-240 kDa. Another band may be seen ~110-115 kDa. Other applications have not been tested. Though this production has not been tested, past productions have been useful for Immunohistochemistry and Immunoprecipitation. The investigator should determine the optimal working dilution for a specific application.

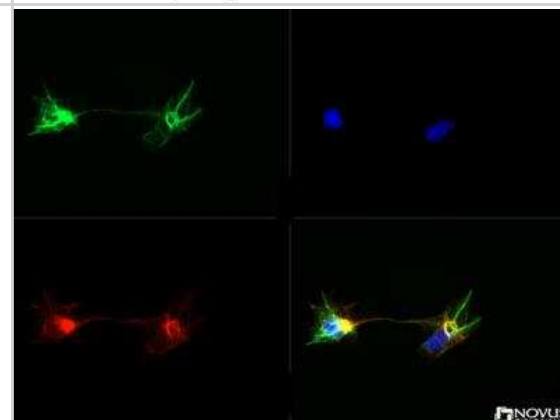


## Images

Western Blot: Nestin Antibody [NB300-265] - Detection of nestin protein in human fetal temporal lobe tissue lysates (30 ug). Lane 1: 0.5 ug/ml NB 300-265; lane 2: 2 ug/ml NB 300-265. ECL: 1 second exposure.



Immunocytochemistry/Immunofluorescence: Nestin Antibody [NB300-265] - The Nestin antibody was tested in NTERA2 cells against Dylight 488 (Green). Alpha-tubulin and nuclei were counterstained against Dylight 550 (Red) and DAPI (Blue), respectively.



## Publications

Tallman MM Adult and pediatric brain tumors targeted with the small molecule drug CBL0137 Thesis 2023-01-01 (WB, Human)

Tallman MM, Zalenski AA, Deighen AM et al. The small molecule drug CBL0137 increases the level of DNA damage and the efficacy of radiotherapy for glioblastoma *Cancer Lett* 2020-11-27 [PMID: 33253788] (WB)

Touil Y, Segaula Z, Thuru X et al. Aggressiveness potential of spontaneous canine mucosal melanoma can dictate distinct cancer stem cell compartment behaviors in regard to their initial size and expansion abilities *Stem Cells Dev.* 2020-05-18 [PMID: 32423311] (IF/IHC, Canine)

Wong A, Ghassemi E, Yellowley CE. Nestin expression in mesenchymal stromal cells: regulation by hypoxia and osteogenesis. *BMC Vet. Res.* 2014-08-05 [PMID: 25088159] (WB, Canine)

Messam, CA et al. Coexpression of nestin in neural and glial cells in the developing human CNS defined by a human-specific anti-nestin antibody. *Exp Neurol*;161(2):585-96. 2000-02-01 [PMID: 10686078] (WB, Human)

## Procedures

### Serum protocol for Nestin Antibody (NB300-265)

Nestin Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (3-8%) on samples to be analyzed, loading 50ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk in TBS for 1 hour.
6. Dilute the rabbit anti-Nestin primary antibody (NB 300-265) in blocking buffer and incubate overnight at 4 degrees Celsius.
7. Wash the membrane in water for 5 minutes and apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.
8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.
9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).
10. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).

Note: Tween-20 can be added to the blocking buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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### **Products Related to NB300-265**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB300-265AF405	Nestin Antibody [Alexa Fluor® 405]

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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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