

# Product Datasheet

## Nestin Antibody NB300-265SS

Unit Size: 0.025 ml

Store at 4C. Do not freeze.

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB300-265](http://www.novusbio.com/NB300-265)

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**NB300-265SS**

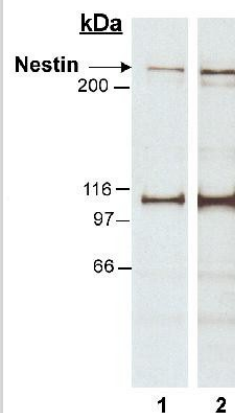
Nestin Antibody

Product Information	
Unit Size	0.025 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Purity	Immunogen affinity purified
Buffer	Tris-citrate/phosphate, pH 7-8
Product Description	
Host	Rabbit
Gene ID	10763
Gene Symbol	NES
Species	Human, Canine, Mouse (Negative), Rabbit (Negative), Rat (Negative)
Species Reactivity	Human. Canine reactivity reported in scientific literature (PMID: 25088159) Does not cross-react with rodent.
Marker	Neural Stem Cell Marker
Specificity/Sensitivity	This is specific for human nestin.
Immunogen	Recombinant human Nestin protein (corresponding to residues 1464-1614). [UniProt# P48681]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Immunocytochemistry/Immunofluorescence 1:100-1:500, Western Blot 1:500-1:2000
Application Notes	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.

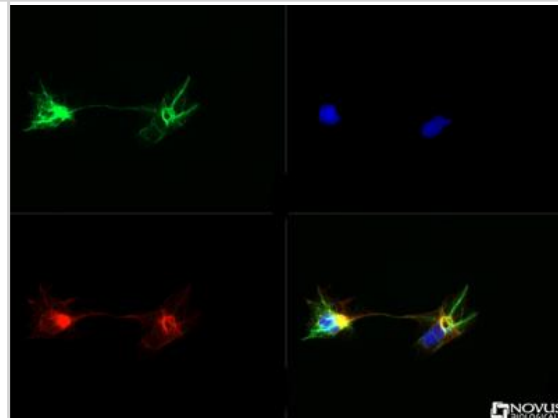


## Images

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

Wong A, Ghassemi E, Yellowley CE. Nestin expression in mesenchymal stromal cells: regulation by hypoxia and osteogenesis. *BMC Vet. Res.* 2014 Aug 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 Feb. [PMID: 10686078] (WB, Human)

## Procedures

### Protocol specific for Nestin Antibody (NB300-265)

#### 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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### **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.

**For more information on our guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee).**

