

**Nestin Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2020b****Specification**

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**Nestin Antibody (C-term) - Product Information**

Application	IF, IHC-P,E
Primary Accession	<a href="#">P48681</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1560-1590

**Nestin Antibody (C-term) - Additional Information****Gene ID** 10763**Other Names**

Nestin, NES

**Target/Specificity**

This Nestin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1560~1590 amino acids from the C-terminal region of human nestin.

**Dilution**

IF~~1:10~50

IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Nestin Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Nestin Antibody (C-term) - Protein Information****Name** NES

**Function** Required for brain and eye development. Promotes the disassembly of phosphorylated vimentin intermediate filaments (IF) during mitosis and may play a role in the trafficking and distribution of IF proteins and other cellular factors to daughter cells during progenitor cell division.

Required for survival, renewal and mitogen- stimulated proliferation of neural progenitor cells (By similarity).

#### Tissue Location

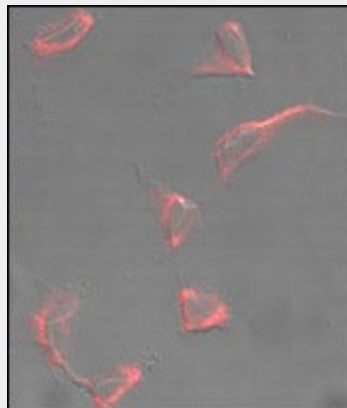
CNS stem cells.

#### Nestin Antibody (C-term) - Protocols

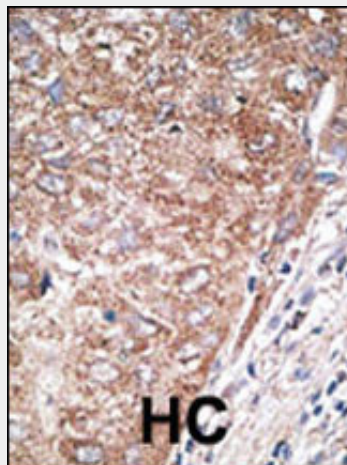
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Nestin Antibody (C-term) - Images



Immunofluorescence analysis of anti-Nestin Antibody (C-term) (Cat.#AP2020b) in HeLa cells. 0.025 mg/ml primary antibody was followed by Alexa-Fluor-546-conjugated donkey anti-rabbit IgG (H+L). Alexa-Fluor-546 emits orange fluorescence.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody,

which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

### **Nestin Antibody (C-term) - Background**

Nestin is a class VI intermediate filament protein expressed predominantly in stem cells of the neural tube but absent from virtually all differentiated CNS cells. In the CNS, nestin is downregulated upon differentiation and replaced by neurofilaments. Transient expression of nestin has been postulated as a key step committing cells to the neural differentiation pathway. Nestin expression has also been observed in pancreatic hematopoietic stem cell populations.

### **Nestin Antibody (C-term) - References**

Yaworsky, P.J., et al., Dev. Biol. 205(2):309-321 (1999).  
Dahlstrand, J., et al., J. Cell. Sci. 103 (Pt 2), 589-597 (1992).

### **Nestin Antibody (C-term) - Citations**

- [Generation of four induced pluripotent stem cell lines, GZWWTi001-A, GZWZTi001-A, GZWXYi001-A, and GZWXdI001-A, derived from peripheral blood mononuclear cells from a family with asparagine synthetase deficiency](#)
- [Effects of muscarinic acetylcholine receptor stimulation on the differentiation of mouse induced pluripotent stem cells into neural progenitor cells](#)
- [Generation of GZKH0i001-A and GZWWTi001-A, two induced pluripotent stem cell lines derived from peripheral blood mononuclear cells of Duchenne muscular dystrophy patients](#)
- [Generation of integration-free induced pluripotent stem cells \(GZHMUi001-A\) by reprogramming peripheral blood mononuclear cells from a 47, XXX syndrome patient](#)
- [Identification of a novel putative pancreatic stem/progenitor cell marker DCAMKL-1 in normal mouse pancreas](#)