



## Rabbit Anti-Nestin antibody

SL0006R

<b>Product Name:</b>	Nestin
<b>Chinese Name:</b>	巢蛋白/神经上皮Stem cells蛋白抗体
<b>Alias:</b>	ESTM 46; FLJ 21841; FLJ21841; Intermediate filament protein; Nbla00170; Nes; NEST_HUMAN; Nestin.
<b>文献引用</b> PubMed :	<p><b>Specific References(1)</b> SL0006R has been referenced in 1 publications.</p> <p><b>[IF=1.29]</b>Fan, Lixing, et al. "Directed differentiation of aged human bone marrow multipotent stem cells effectively generates dopamine neurons."?In Vitro Cellular &amp; Developmental Biology-Animal?(2013): 1-9.<b>Human.</b></p> <p style="text-align: right;"><a href="#">PubMed:24163158</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	178kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Nestin:801-900/1621
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>There are a certain number of neural stem cells, which can be potentially differentiated into the neurons or neuroglia, in the adult mammalian brain. These neural precursors are located in the subependymal cell layer of the ventricle. Those precursors isolated from embryonic brain can be divided and differentiated into the neurons and glia in vitro and this is regulated by a series of growth-factor actions.</p> <p><b>Function:</b> 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).</p> <p><b>Subunit:</b> Forms homodimers and homotetramers in vitro. In mixtures with other intermediate filament proteins such as vimentin and alpha-internexin, tis protein preferentially forms heterodimers which can assemble to form intermediate filaments if nestin does not exceed 25%. Interacts with FHOD3 (By similarity).</p> <p><b>Tissue Specificity:</b> CNS stem cells.</p> <p><b>Post-translational modifications:</b> Constitutively phosphorylated. This increases during mitosis when the cytoplasmic intermediate filament network is reorganized.</p> <p><b>Similarity:</b> Belongs to the intermediate filament family.</p> <p><b>SWISS:</b> P48681</p> <p><b>Gene ID:</b> 10763</p> <p><b>Database links:</b></p> <p><a href="#">Entrez Gene: 10763</a>Human</p> <p><a href="#">Entrez Gene: 18008</a>Mouse</p> <p><a href="#">Entrez Gene: 25491</a>Rat</p>

[Oimim: 600915](#)Human

[SwissProt: P48681](#)Human

[SwissProt: Q6P5H2](#)Mouse

[SwissProt: P21263](#)Rat

[Unigene: 527971](#)Human

[Unigene: 331129](#)Mouse

[Unigene: 9701](#)Rat

**Important Note:**

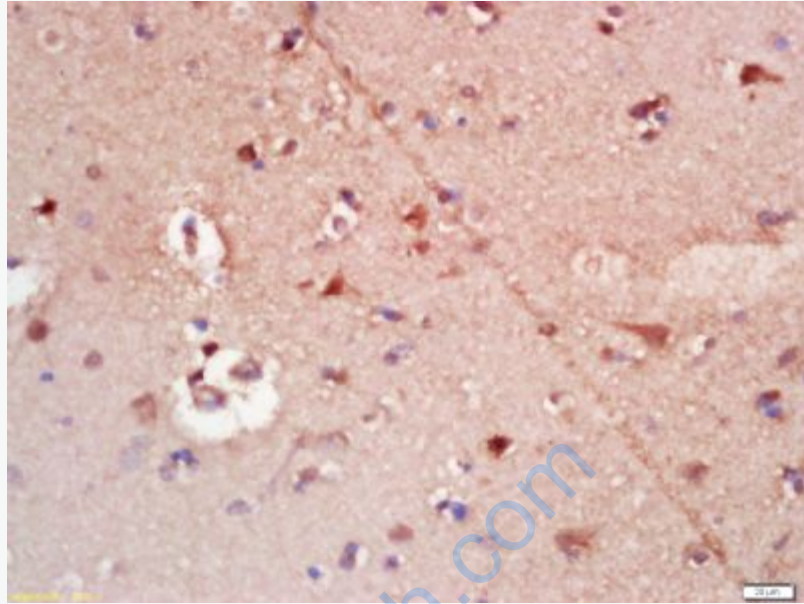
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结构蛋白 (Structural Proteins)

Neural Stem Cell Marker (神经Stem cellsMaker)

在动物体早期发育过程中, 中枢神经系统发育尤为重要

。Nestin是一种中等纤维蛋白, 它在哺乳动物神经前体细胞中表达较高, 目前已被广泛用于神经前体细胞的重要标志分子。研究Nestin的表达调控规律, 将有助于人们认识神经前体细胞的生物特性。此抗体还表达中枢神经系统Stem cells及神经epithelial cells。

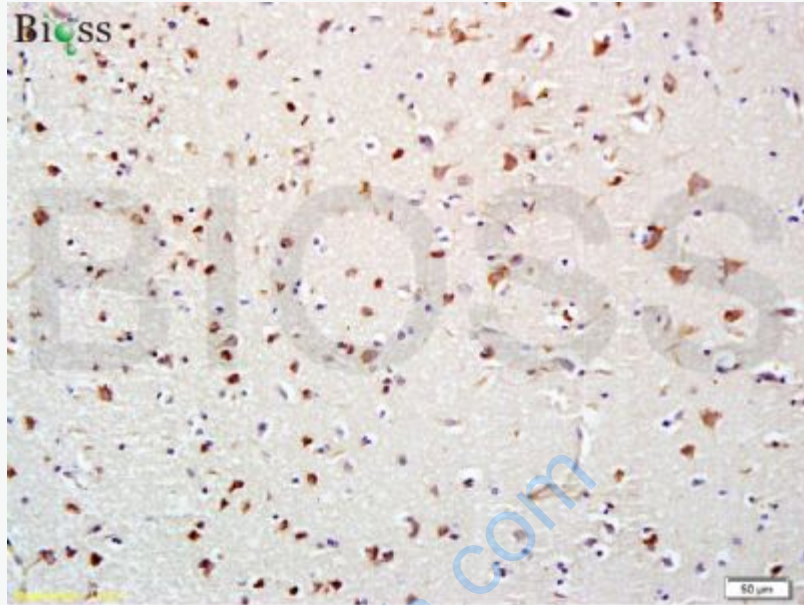


**Picture:**

Tissue/cell: The human brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Nestin Polyclonal Antibody, Unconjugated(SL0006R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



**bs-0006R Anti-Nestin Polyclonal Antibody**

Tissue/cell: glioma of human brain; 4% Paraformaldehyde-fixed and paraffin-embedded  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min  
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min  
Blocking buffer (normal goat serum) at 37°C for 20 min  
Incubation: Anti-Nestin Polyclonal Antibody, Unconjugated(bs-0006R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

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