



Rabbit Anti-Nestin antibody

SL8203R

Product Name:	Nestin
Chinese Name:	巢蛋白/神经上皮Stem cells蛋白抗体
Alias:	ESTM 46; FLJ 21841; FLJ21841; Intermediate filament protein; Nbla00170; Nes; NEST_RAT; Nestin.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	177kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Nestin:21-120/1621
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	Nestin is a Class VI intermediate filament expressed in the developing central nervous system (CNS) in early embryonic neuroepithelial stem cells. This protein has been widely used as a predominant marker for stem / progenitor cells, glioma cells, and tumor endothelial cells in the mammalian CNS. Furthermore, it is a superior angiogenic marker to evaluate neovascularity of endothelial cells in tumor.

Function:

Required for brain and eye development (By similarity). 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.

Subunit:

Forms homodimers and homotetramers in vitro. In mixtures with other intermediate filament proteins such as vimentin and alpha-internexin, this protein preferentially forms heterodimers which can assemble to form intermediate filaments if nestin does not exceed 25%. Interacts with FHOD3.

Subcellular Location:

Forms homodimers and homotetramers in vitro. In mixtures with other intermediate filament proteins such as vimentin and alpha-internexin, this protein preferentially forms heterodimers which can assemble to form intermediate filaments if nestin does not exceed 25%. Interacts with FHOD3

Tissue Specificity:

CNS stem cells.

Post-translational modifications:

Constitutively phosphorylated. This increases during mitosis when the cytoplasmic intermediate filament network is reorganized.

Similarity:

Belongs to the intermediate filament family.

SWISS:

P48681

Gene ID:

10763

Database links:

[Entrez Gene: 10763](#)Human

[Entrez Gene: 18008](#)Mouse

[Entrez Gene: 25491](#)Rat

[Omim: 600915](#)Human

[SwissProt: P48681](#)Human

[SwissProt: Q6P5H2](#)Mouse

[SwissProt: P21263](#)Rat

[Unigene: 527971](#)Human

[Unigene: 331129](#)Mouse

[Unigene: 9701](#)Rat

Important Note:

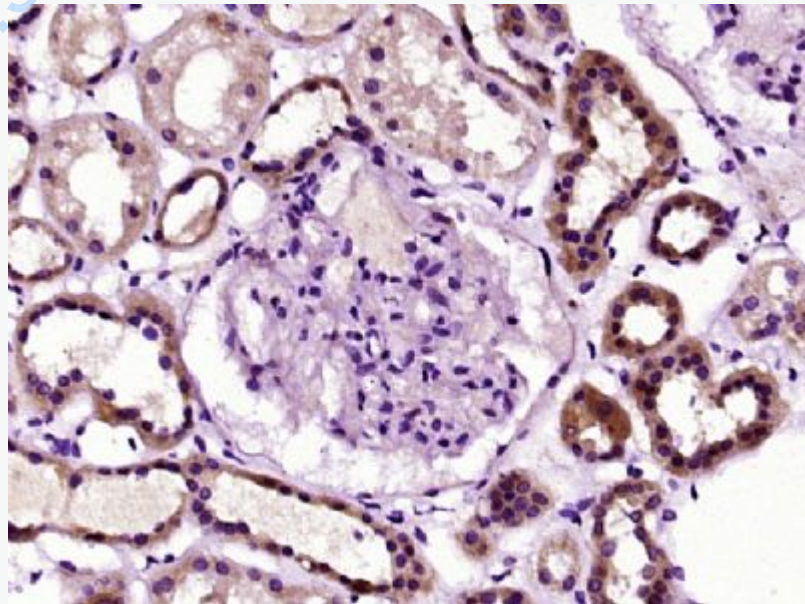
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

神经Stem cellsMaker

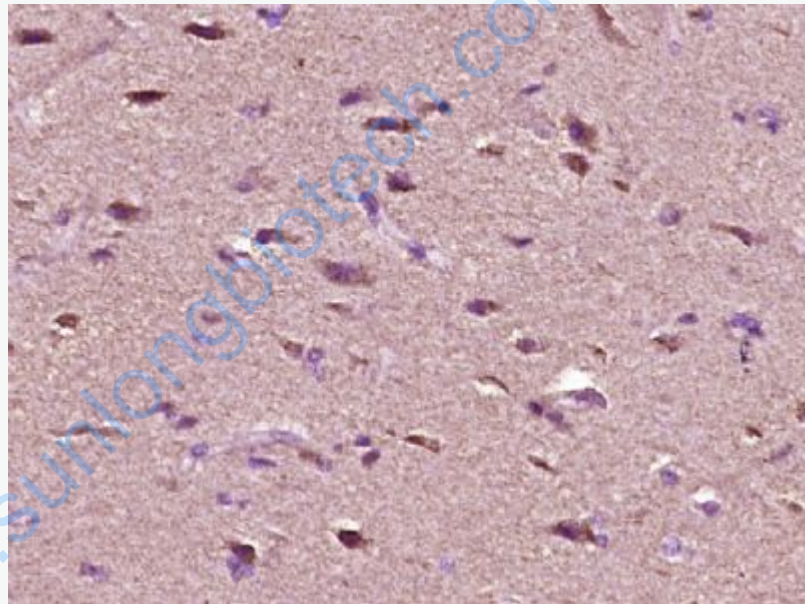
在动物体早期发育过程中，中枢神经系统发育尤为重要

。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。

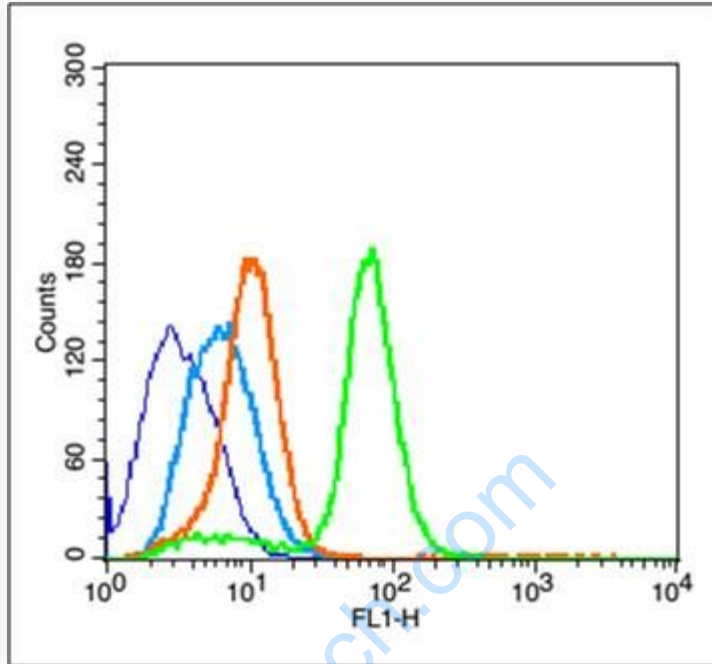
Picture:



Paraformaldehyde-fixed, paraffin embedded (Human kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Nestin) Polyclonal Antibody, Unconjugated (SL8203R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Nestin) Polyclonal Antibody, Unconjugated (SL8203R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (blue line): U251 (fixed with 2% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature).

Primary Antibody (green line): Rabbit Anti-Nestin antibody (SL8203R), Dilution: 1 μ g / 10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1 μ g / test.