

Mouse Anti-Nestin antibody

SLM-60784M

Product Name Nestin

Chinese Name 巢蛋白/神经上皮 Stem cells 蛋白单克隆抗体

Alias ESTM 46; FLJ 21841; FLJ21841; Intermediate filament protein; Nbla00170; Nes; NEST_HUMAN; Nestin.

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. E2G4

React Species Human

Applications WB=1:500-1000, IHC-P=1:50-200, IHC-F=1:50-200, IF=1:50-200
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 178kDa

Cellular localization cytoplasmic

Form Lyophilized or Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human Nestin

Lsotype IgG2a κ

Purification affinity purified by Protein G

Buffer Solution PBS, Glycerol, BSA

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

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:

cytoplasm

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

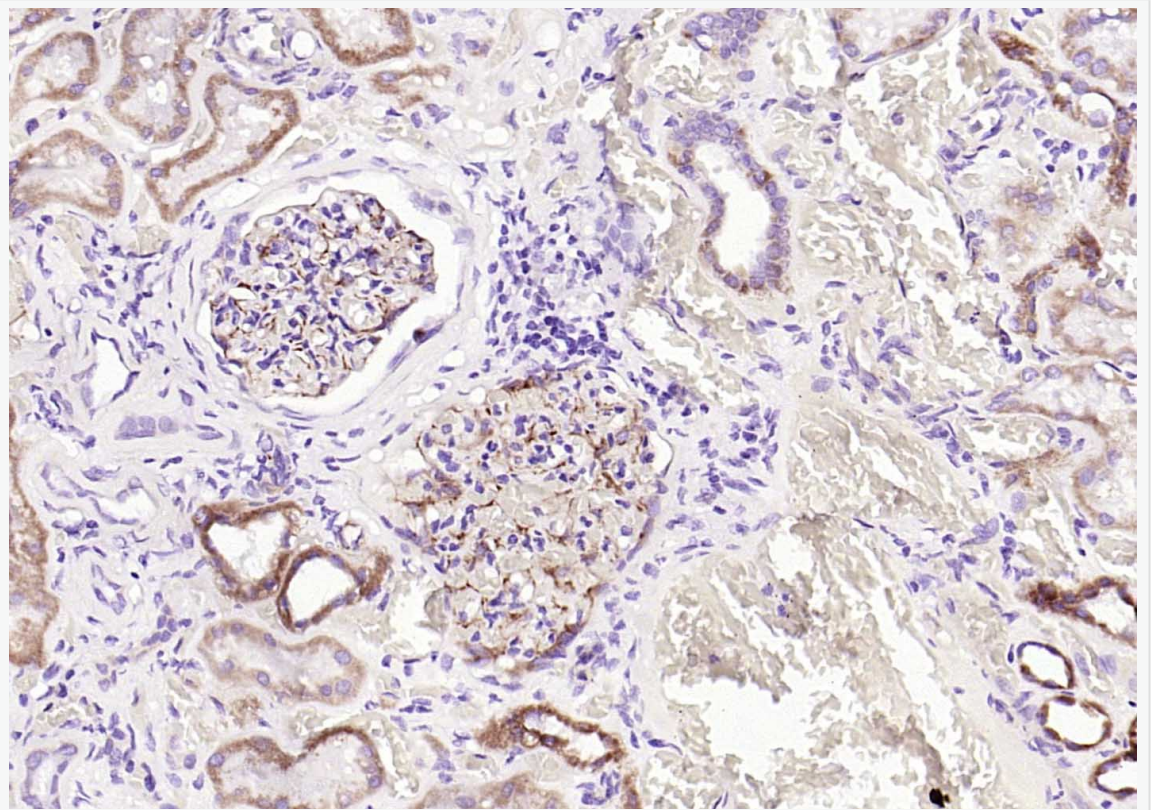
[Unigene: 527971](#) Human

[Unigene: 331129](#) Mouse

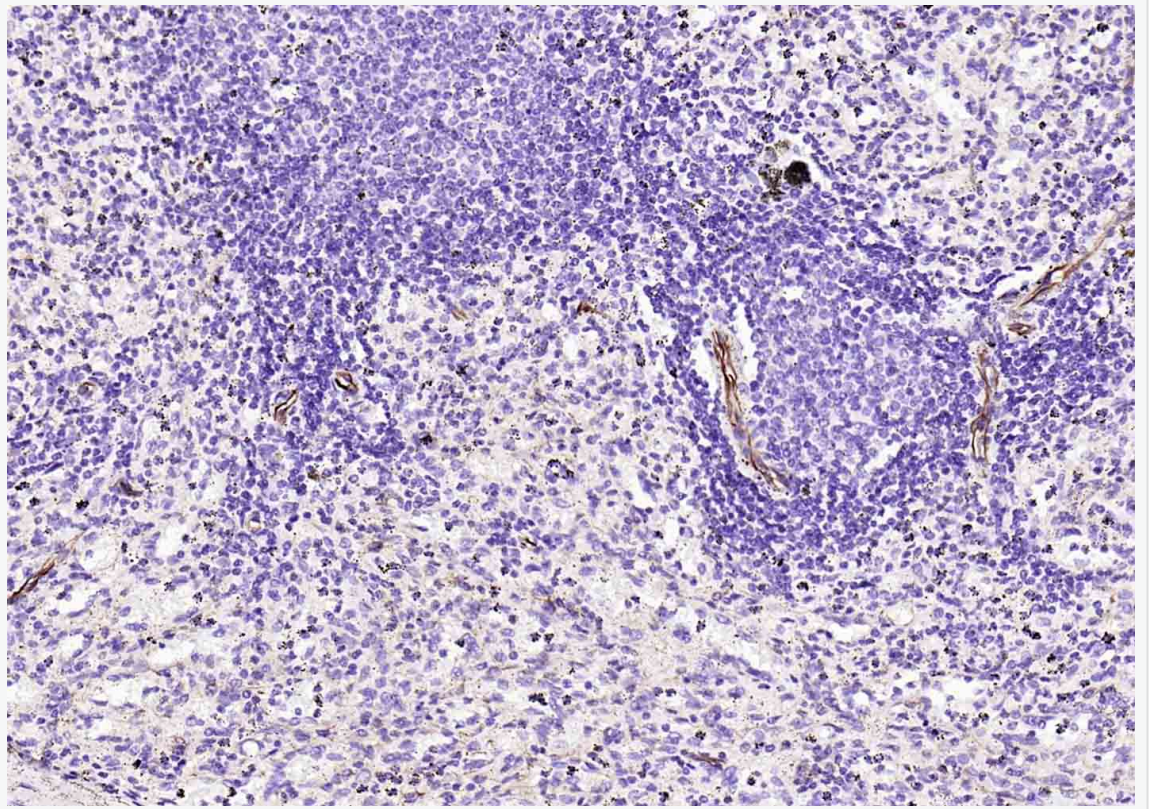
[Unigene: 9701](#) Rat

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。

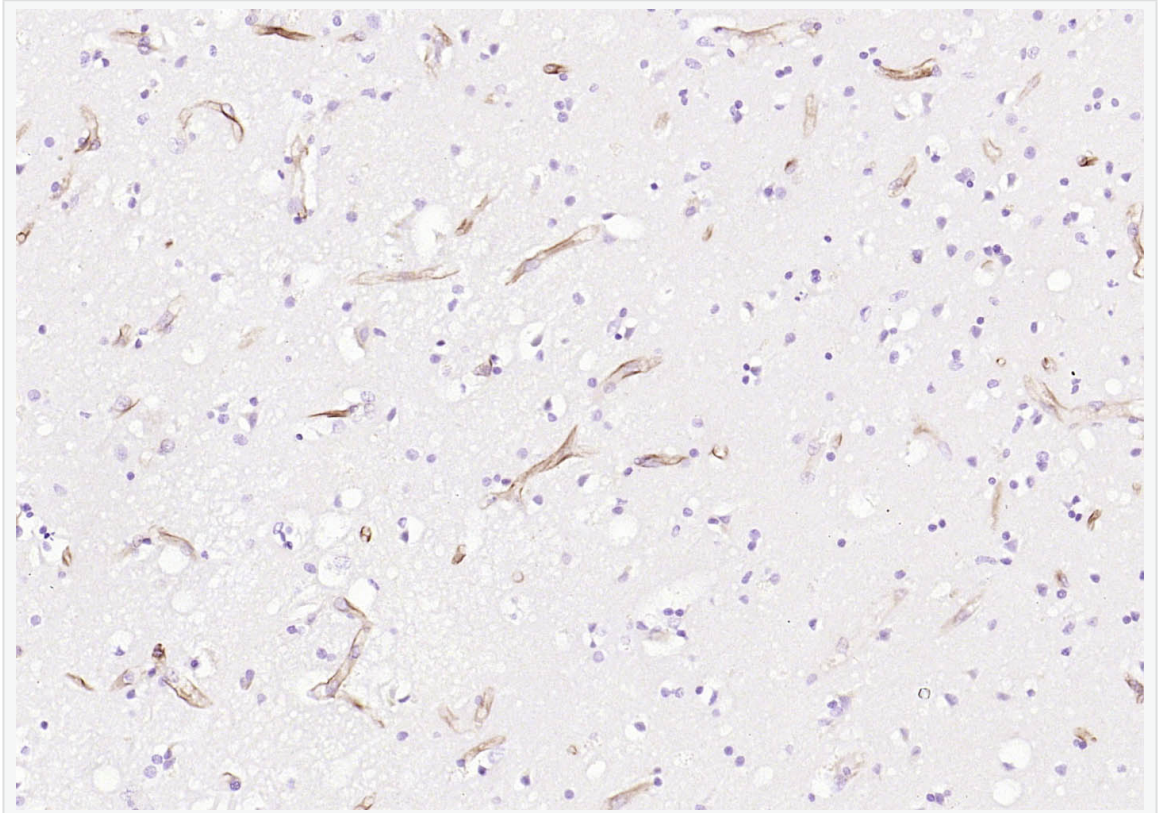
**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (human kidney); 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; Incubation with (Nestin) Monoclonal Antibody, Unconjugated (SLM-60784M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human spleen); 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; Incubation with (Nestin) Monoclonal Antibody, Unconjugated (SLM-60784M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain); 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; Incubation with (Nestin) Monoclonal Antibody, Unconjugated (SLM-60784M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.