

Anti-Nestin Picoband Antibody

Catalog # ABO12560

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	P48681
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Protein Mdm4(MDM4) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	10763
Other Names	Nestin, NES
Calculated MW	177439
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, By Heat Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml Western blot, 0.1-0.5 μ g/ml
Tissue Specificity	CNS stem cells.
Source	Eukaryota
Protein Name	Nestin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Nestin (252-290aa ERLRATEKFQLAVEALEQEKGQLQSQIAQVLEGRQQLAH), different from the related mouse sequence by four amino acids, and from the related rat sequence by five amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated

freezing and thawing.

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.

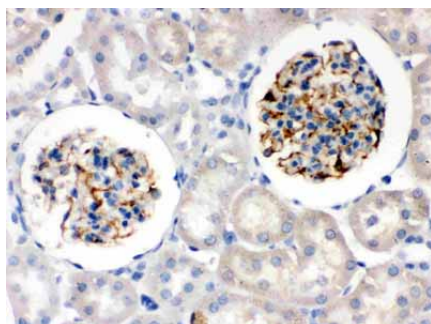
Background

Nestin is a type VI intermediate filament (IF) protein that in humans is encoded by the NES gene. This gene is mapped to 1q23.1. Distribution and expression of nestin in mitotically active cells suggests it plays a role in regulation of the assembly and disassembly of intermediate filaments, which, together with other structural proteins, participate in remodeling of the cell. The role of nestin in dynamic cells, particularly structural organization of the cell, appears strictly regulated by phosphorylation, especially its integration into heterogeneous intermediate filaments together with vimentin or α -internexin. Furthermore, nestin expression has been extensively used as a marker for central nervous system (CNS) progenitor cells in different contexts, based on observations indicating a correlation between nestin expression and this cell type in vivo.

Images

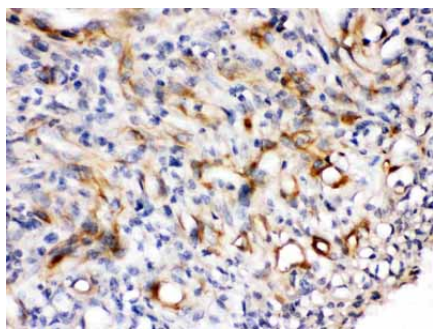


Western blot analysis of Nestin expression in HELA whole cell lysates (lane 1) and HEPG2 whole cell lysates (lane 2). Nestin at 230KD was detected using rabbit anti- Nestin Antigen Affinity purified polyclonal antibody (Catalog # ABO12560) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .



Nestin was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- Nestin Antigen Affinity purified polyclonal antibody (Catalog # ABO12560) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Nestin was detected in paraffin-embedded sections of human melanoma tissues using rabbit anti- Nestin Antigen Affinity purified polyclonal antibody (Catalog #



ABO12560) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

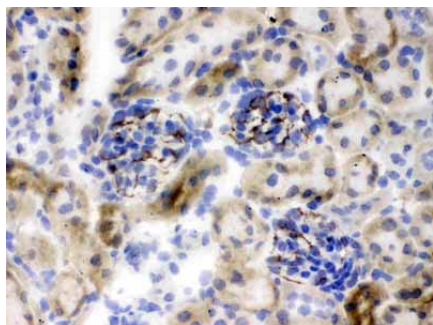


Figure 4. IHC analysis of Nestin using anti-Nestin antibody (ABO12560).Nestin was detected in frozen section of mouse kidney tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti-Nestin Antibody (ABO12560) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

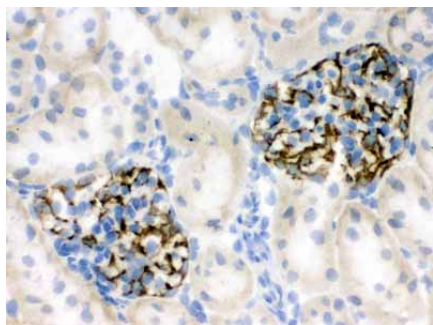


Figure 5. IHC analysis of Nestin using anti-Nestin antibody (ABO12560).Nestin was detected in frozen section of rat kidney tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti-Nestin Antibody (ABO12560) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.