

Datasheet for ABIN388764  
**anti-Nestin antibody (AA 1389-1416)**[Go to Product page](#)

7 Images

1 Publication

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 400 µL  |
| Target:              | Nestin (NES)  |
| Binding Specificity: | AA 1389-1416  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This Nestin antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS),<br>Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|               |   |
|---------------|---|
| Immunogen:    | This Nestin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1389-1416 amino acids from human Nestin. |
| Clone:        | RB16253   |
| Isotype:      | Ig Fraction   |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification.  |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | Nestin (NES)                            |
| Alternative Name: | Nestin ( <a href="#">NES Products</a> ) |

## Target Details

|                   |   |
|-------------------|---|
| 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. |
| Molecular Weight: | 177439  |
| Gene ID:          | 10763   |
| NCBI Accession:   | <a href="#">NP_006608</a>   |
| UniProt:          | <a href="#">P48681</a>  |

## Application Details

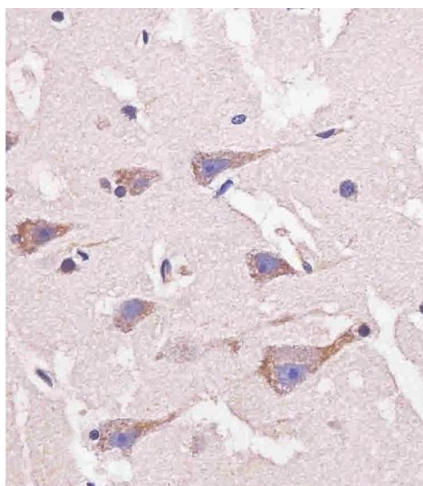
|                    |  |
|--------------------|--|
| Application Notes: | IF: 1:200. IF: 1:25. WB: 1:2000. WB: 1:2000. IHC-P: 1:25. IHC-P: 1:25. IHC-P: 1:25 |
| Restrictions:      | For Research Use only  |

## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Buffer:            | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.   |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                     |
| Storage:           | 4 °C,-20 °C  |
| Storage Comment:   | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date:       | 6 months   |

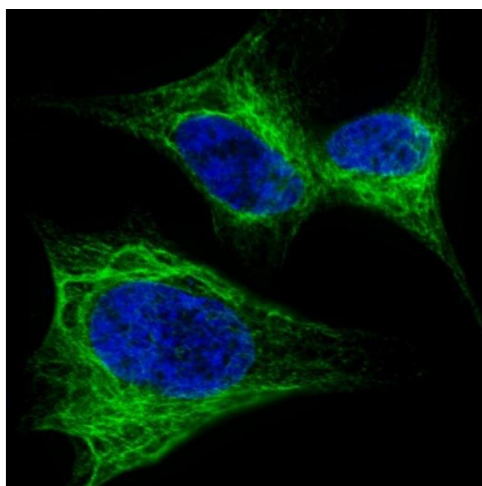
## Publications

|                   |   |
|-------------------|---|
| Product cited in: | Lei, Chen, Huang, Wu, Lin, Lai: "Proteomic analysis of the effect of extracellular calcium ions on human mesenchymal stem cells: Implications for bone tissue engineering." in: <b>Chemico-biological interactions</b> , Vol. 233, pp. 139-46, (2015) ( <a href="#">PubMed</a> ). |
|-------------------|---|



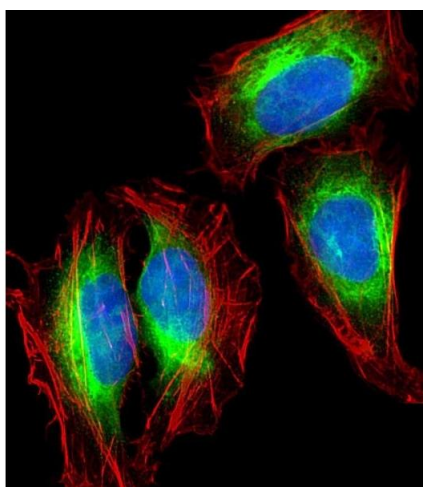
#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** D staining Nestin in human brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3 % BSA for 0.5 hour at room temperature, antigen retrieval was by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hours at 37 °C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



#### Immunofluorescence

**Image 2.** Fluorescent confocal image of SH-SY5Y cells stained with Nestin antibody. SH-SY5Y cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.2 %, 30 min). Cells were then incubated with (ABIN388764 and ABIN2839051) Nestin primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/mL, 5 min). Note the highly specific localization of the Nestin immunosignal to the intermediate filaments, supported by Human Protein Atlas Data (<http://www.proteinatlas.org/ENSG00000132688>).



#### Immunofluorescence

**Image 3.** Immunofluorescent analysis of 4 % paraformaldehyde-fixed, 0.1 % Triton X-100 permeabilized U-2 OS (human bone osteosarcoma cell line) cells labeling Nestin with (ABIN388764 and ABIN2839051) at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (NK179883) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoskeleton staining on U-2 OS cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100

dilution (red).The nuclear counter stain is DI (blue).

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN388764.