

For Research Use Only

# Nestin Polyclonal antibody

Catalog Number: 29285-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 29285-1-AP	<b>GenBank Accession Number:</b> NM_006617	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 900 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10763	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P48681	
<b>Isotype:</b> IgG	<b>Full Name:</b> nestin	
<b>Immunogen Catalog Number:</b> AG29865	<b>Calculated MW:</b> 177 kDa	
	<b>Observed MW:</b> 240-280 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, WB, ELISA	<b>Positive Controls:</b> WB : SGC-7901 cells, U-251 cells, U-87 MG cells IF : rat brain tissue, mouse kidney tissue, human kidney tissue, U-251 cells
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> Human, rat, mouse	
<b>Cited Species:</b> human	

## Background Information

Nestin, also named as NES and Nbla00170, is a class VI intermediate filament protein expressed in stem cells of the central nervous system (CNS) but not in mature CNS cells. Its expression is used extensively as a marker for neural lineage cells derived from human embryonic stem (hES) and induced pluripotent stem (iPS) cells. Nestin is also expressed in non-neural stem cell populations such as pancreatic islet progenitors and hematopoietic progenitors. Nestin can be detected as 220-240 kDa and 240-280 kDa. Studies point toward nestin heavy posttranslational modifications as possibly serving particular functions in podocytes and in a few other particular cell types (PMID: 17210924).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhaoping Wu	38333615	Bioact Mater	IF

## Storage

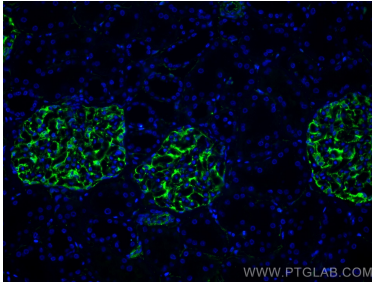
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

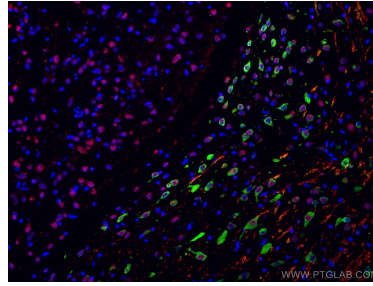
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

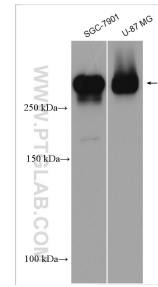
## Selected Validation Data



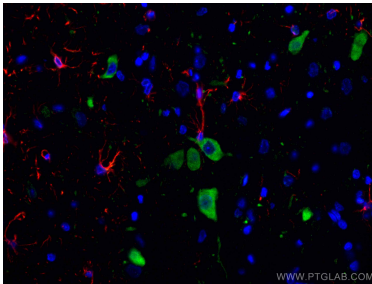
Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using Nestin antibody (29285-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



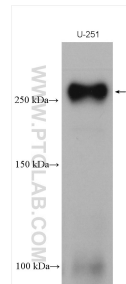
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using nestin antibody (29285-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), NeuN antibody (66836-1-Ig, Clone: 3A4C1, red).



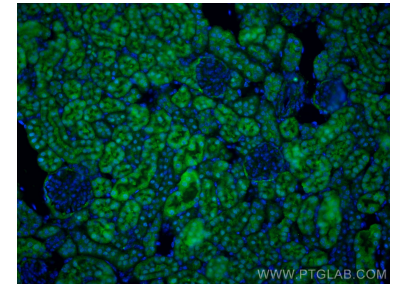
Various lysates were subjected to SDS PAGE followed by western blot with 29285-1-AP (nestin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



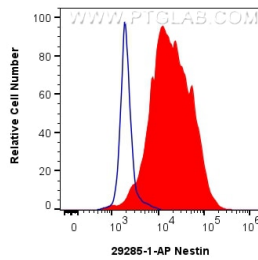
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using nestin antibody (29285-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), GFAP antibody (60190-1-Ig, Clone: 4B2E10, red).



U-251 cells were subjected to SDS PAGE followed by western blot with 29285-1-AP (nestin antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using Nestin antibody (29285-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



$1 \times 10^6$  SH-SY5Y cells were intracellularly stained with 0.4  $\mu$ g Anti-Human Nestin (29285-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4  $\mu$ g Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).