### For Research Use Only

# Nestin Polyclonal antibody

Catalog Number:19483-1-AP 114 Publications



**Basic Information** 

Catalog Number: GenBank Accession Number: 19483-1-AP NM\_006617 GeneID (NCBI): Concentration: 600 ug/ml 10763 **UNIPROT ID:** Source: Rabbit P48681 Full Name: Isotype:

> Calculated MW: 177 kDa Observed MW: 170-180 kDa

nestin

**Purification Method:** 

Antigen affinity purification Recommended Dilutions:

WB: 1:500-1:1000 IHC: 1:200-1:800 IF-P: 1:50-1:500 IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a

100 µl suspension

**Applications** 

**Tested Applications:** 

WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA

Cited Applications: WB, IHC, IF Species Specificity:

human, mouse, rat **Cited Species:** 

human, mouse, rat, monkey, zebrafish

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Positive Controls:** 

WB: mouse brain tissue, rat brain tissue

IHC: human kidney tissue, human gliomas tissue

IF-P: mouse kidney tissue, IF/ICC: SH-SY5Y cells, U-251 cells FC (Intra): SH-SY5Y cells,

## **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
Chenlong Li	31558707	Cell Death Dis	WB
Lili Ma	36132985	J Immunol Res	IF
Jiansheng Chen	31511040	J Exp Clin Cancer Res	WB

Storage

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

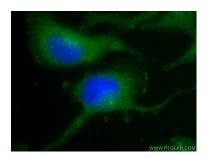
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

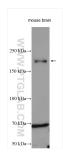
T: 4006900926 E: Proteintech-CN@ptglab.com

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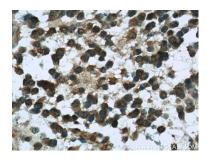
### Selected Validation Data



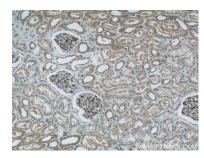
Immunofluorescent analysis of U-251 cells using 19483-1-AP (Nestin antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Affini Pure Goat Anti-Rabbit IgG(H+L).



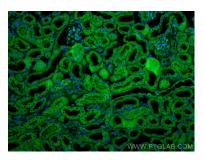
Mouse brain lysates were subjected to SDS PAGE followed by western blot with 19483-1-AP (Nestin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



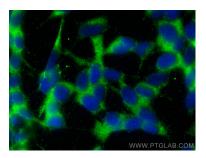
Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 19483-1-AP (Nestin Antibody) at dilution of 1:100 (under 40x lens).



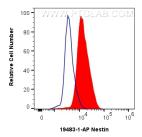
Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 19483-1-AP (Nestin Antibody) at dilution of 1:400 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using Nestin antibody (19483-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using Nestin antibody (19483-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10^6 SH-SY5Y cells were intracellularly stained with 0.4 ug Nestin Polyclonal antibody (19483-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).