Nestin Polyclonal antibody

Catalog Number: 19483-1-AP

For Research Use Only

Basic Information

Catalog Number: 19483-1-AP
Size: 150 μl, Concentration: 600 μg/ml by Nanodrop;
Source: Rabbit
Isotype: IgG

GenBank Accession Number: NM_006617
GeneID (NCBI): 10763
Full Name: nestin
Calculated MW: 177 kDa
Observed MW: 170-180 kDa

Purification Method: Antigen affinity purification
Recommended Dilutions:
WB 1:500-1:1000
IHC 1:200-1:800
IF 1:50-1:500

Applications

Tested Applications: IF, IHC, WB, ELISA
Cited Applications: FC, IF, IHC, WB
Species Specificity: human, mouse, rat
Cited Species: human, rat, mouse, 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, mouse brain tissue
IF: rat brain tissue, SH-SY5Y cells, mouse brain tissue, U-251 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

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<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
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<tbody>
<tr>
<td>Chenlong Li</td>
<td>31558707</td>
<td>Cell Death Dis</td>
<td>WB</td>
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<tr>
<td>Lili Ma</td>
<td>36132985</td>
<td>J Immunol Res</td>
<td>IF</td>
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<tr>
<td>Jiansheng Chen</td>
<td>31511040</td>
<td>J Exp Clin Cancer Res</td>
<td>WB</td>
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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: proteintechn@ptglab.com
W: ptglab.com

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Selected Validation Data

Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using Nestin antibody (19483-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit (H+L).

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

Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 19483-1-AP (Nestin antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit (H+L). The section was co-stained with sox2 (66411-1-Ig, red).

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

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