

For Research Use Only

# NOP2 Polyclonal antibody

Catalog Number: 10448-1-AP

6 Publications



## Basic Information

<b>Catalog Number:</b> 10448-1-AP	<b>GenBank Accession Number:</b> BC000656	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 350 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4839	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> NOP2 nucleolar protein homolog (yeast)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 120 kDa	
<b>Immunogen Catalog Number:</b> AG0498	<b>Observed MW:</b> 100-120 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : A2780 cells, C6 cells, HeLa cells IHC : mouse brain tissue, IF : HEK-293 cells,
<b>Cited Applications:</b> IF, IP, WB	
<b>Species Specificity:</b> human, rat, mouse	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

NOL1, (synonyms: p120, NSUN1, NOP120), is a 120 kDa proliferating-cell nucleolar antigen and is the most cancer specific of the proliferation-associated nucleolar proteins identified thus far. NOL1 is expressed in G1 and peaks during the early S phase of the cell cycle and it has not been detected in benign tumors and most normal resting tissues. Overexpression of NOL1 caused the transformation of NIH 3T3 cells and expression of an antisense NOL1 construct inhibited the growth of NIH 3T3 cells. NOL is localized in a novel nucleolar microfibrillar structure, and contains, consecutively, four major domains: a basic domain, an acidic domain, a hydrophobic and methionine-rich domain, and a domain rich in cysteine and proline residues. The gene for human NOL1 was assigned to chromosome 12p13.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jinling Bi	35116980	Transl Cancer Res	WB
Calkins Anne S AS	23775790	Nucleic Acids Res	WB, IF
M Carmen Lafita-Navarro	37851577	Cell Rep	WB, IF, IP

## Storage

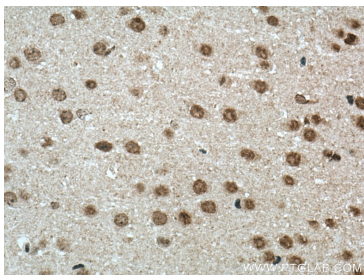
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

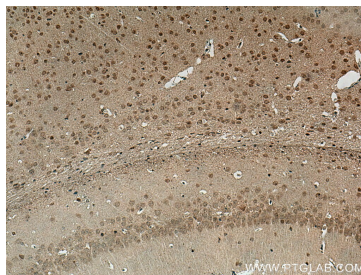
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

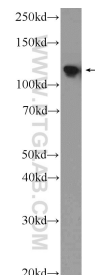
## Selected Validation Data



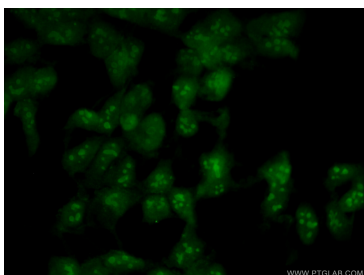
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10448-1-AP (NOP2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10448-1-AP (NOP2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



A2780 cells were subjected to SDS PAGE followed by western blot with 10448-1-AP (NOP2 Antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (10% Formaldehyde) fixed HEK-293 cells using 10448-1-AP (NOP2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).