For Research Use Only

NOP2 Polyclonal antibody

Catalog Number:10448-1-AP 6 Publications

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Basic Information

Catalog Number:
10448-1-AP

Size:
350 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0498

GenBank Accession Number:
BC000656

GeneID (NCBI):
4839

UNIPROT ID:
P46087

Full Name:
NOP2 nucleolar protein homolog (yeast)

Calculated MW:
120 kDa

Observed MW:
100-120 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:50-1:500
IF 1:20-1:200

Applications

Tested Applications:
IF/ICC, IHC, WB,ELISA

Cited Applications:
WB, IP, IF

Species Specificity:
human, rat, mouse

Cited Species:
human, mouse

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 : A2780 cells, C6 cells, HeLa cells

IHC : mouse brain tissue,

IF : HEK-293 cells,

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

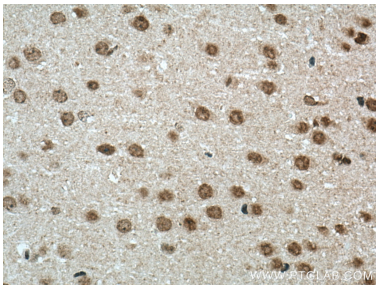
Author	Pubmed ID	Journal	Application
Jinling Bi	35116980	Transl Cancer Res	WB
Calkins Anne S AS	23775790	Nucleic Acids Res	WB,IF
M Carmen Lafita-Navarro	37851577	Cell Rep	WB,IF,IP

Storage

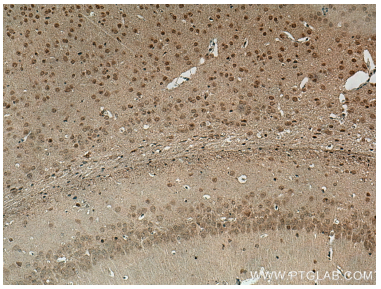
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

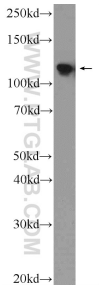
Selected Validation Data



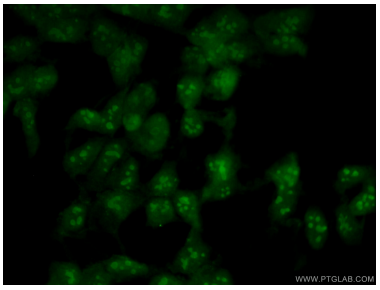
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10448-1-AP (NOP2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 1:2000 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).