

For Research Use Only

NOP56 Polyclonal antibody

Catalog Number: 18181-1-AP

2 Publications



Basic Information

Catalog Number:

18181-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12882

GenBank Accession Number:

BC104791

GeneID (NCBI):

10528

UNIPROT ID:

O00567

Full Name:

NOP56 ribonucleoprotein homolog (yeast)

Calculated MW:

594 aa, 66 kDa

Observed MW:

66 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : NIH/3T3 cells, A549 cells, HeLa cells

IHC : human stomach tissue,

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

Background Information

Box C/D RNA-protein complexes (RNPs) guide the 2'-O-methylation of nucleotides in eukaryotic ribosomal RNAs. The box C/D and C'/D' RNP subcomplexes are each assembled with three sRNP core proteins. The Nop56 core protein mediates crucial protein-protein interactions required for both sRNP assembly and the methyltransferase reaction by bridging the L7Ae and fibrillarin core proteins [PMID:22496443]. NOP56 is a component of the box C/D small nucleolar ribonucleoprotein complexes that direct 2-prime-O-methylation of pre-ribosomal RNA (rRNA) during its maturation. It is predicted to function in an early to middle step in pre-rRNA processing [PMID:12777385].

Notable Publications

Author	Pubmed ID	Journal	Application
Marlene Cervantes	32450515	iScience	WB
Miao Bai	34512161	Int J Biol Sci	WB

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

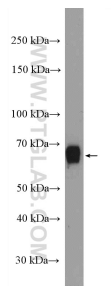
For technical support and original validation data for this product please contact:

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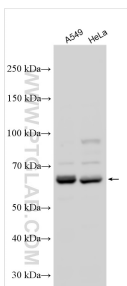
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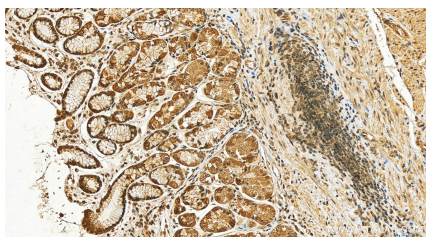
Selected Validation Data



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 18181-1-AP (NOP56 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 18181-1-AP (NOP56 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 18181-1-AP (NOP56 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).