

For Research Use Only

# NOP56 Polyclonal antibody

Catalog Number: 18181-1-AP **2 Publications**



## Basic Information

**Catalog Number:**

18181-1-AP

**Size:**

500 µg/ml

**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

## Applications

**Tested Applications:**

WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

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

## 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

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

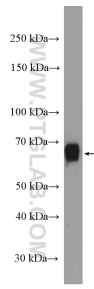
T: 4006900926

E: Proteintech-CN@ptglab.com

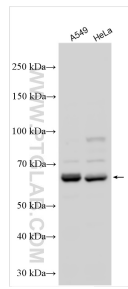
W: ptgcn.com

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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.