

For Research Use Only

# NSUN2 Polyclonal antibody

Catalog Number: 20854-1-AP

Featured Product

80 Publications



## Basic Information

### Catalog Number:

20854-1-AP

### Concentration:

500 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG14791

### GenBank Accession Number:

BC001041

### GeneID (NCBI):

54888

### UNIPROT ID:

Q08J23

### Full Name:

NOL1/NOP2/Sun domain family, member 2

### Calculated MW:

767 aa, 86 kDa

### Observed MW:

90-100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:750-1:3000

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human

### Cited Species:

human

### Positive Controls:

WB : HT-1080 cells, HeLa cells, HepG2 cells, SU-DHL-4 cells, MCF-7 cells

IP : HeLa cells,

IHC : human breast cancer tissue, human liver cancer tissue, human testis tissue

IF/ICC : A549 cells, HepG2 cells

**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

NSUN2, also known as SAKI or Misu (Myc-induced SUN-domain-containing protein), is a methyltransferase which catalyses (cytosine-5-)-methylation of tRNA. NSUN2 is direct target gene of c-Myc and may act downstream of Myc to regulate epidermal cell growth and proliferation. NSUN2 is overexpressed in various cancer tissues and may be a valuable target for cancer therapy and a cancer diagnostic marker. Recently a splicing mutation in NSUN2 has been identified as the cause of a Dubowitz-like syndrome, an autosomal recessive disorder.

## Notable Publications

Author	Pubmed ID	Journal	Application
Takahito Ohshiro	34588546	Sci Rep	IP
Wei Dai	34556860	Nat Chem Biol	WB
Yuan Gao	31487418	Cancer Sci	WB, IHC

## 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:

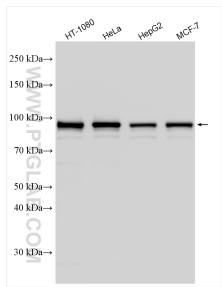
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

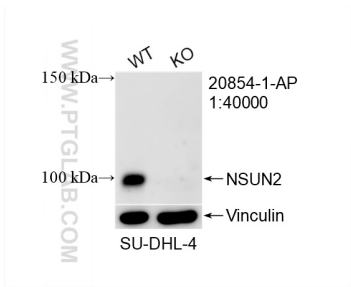
W: [ptgcn.com](http://ptgcn.com)

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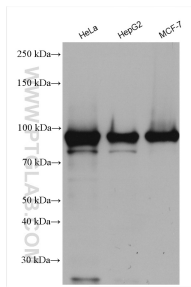
Selected Validation Data



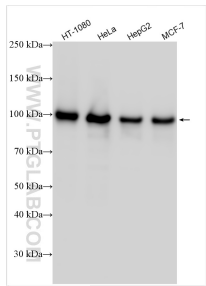
Various lysates were subjected to SDS PAGE followed by western blot with 20854-1-AP (NSUN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



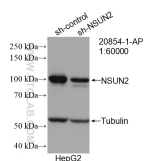
WB result of NSUN2 antibody (20854-1-AP; 1:40000; room temperature for 1.5 hours) with wild-type and NSUN2 knockout SU-DHL-4 cells.



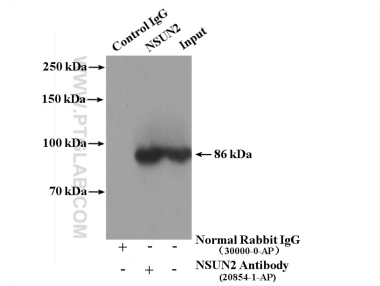
Various lysates were subjected to SDS PAGE followed by western blot with 20854-1-AP (NSUN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



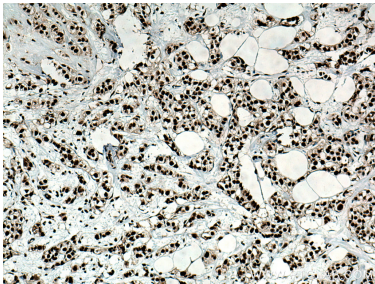
Various lysates were subjected to SDS PAGE followed by western blot with 20854-1-AP (NSUN2 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



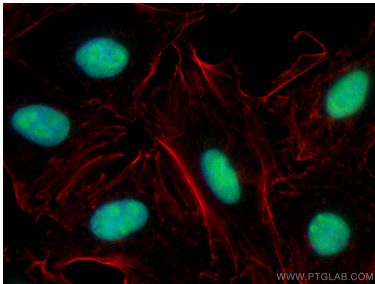
WB result of NSUN2 antibody (20854-1-AP; 1:60000; room temperature for 1.5 hours) with sh-Control and sh-NSUN2 transfected HepG2 cells.



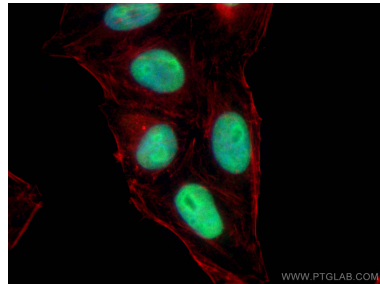
IP result of anti-NSUN2 (IP:20854-1-AP, 4ug; Detection:20854-1-AP 1:1000) with HeLa cells lysate 4000ug.



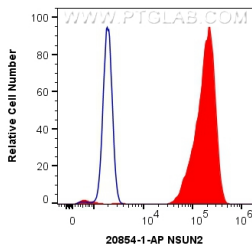
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 20854-1-AP (NSUN2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using NSUN2 antibody (20854-1-AP) at dilution of 1:1500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NSUN2 antibody (20854-1-AP) at dilution of 1:1500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human NSUN2 (20854-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).