

For Research Use Only

NSUN2 Polyclonal antibody

Catalog Number: 20854-1-AP

Featured Product

80 Publications



Basic Information

Catalog Number:

20854-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

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

*** 20ul sizes contain 0.1% BSA

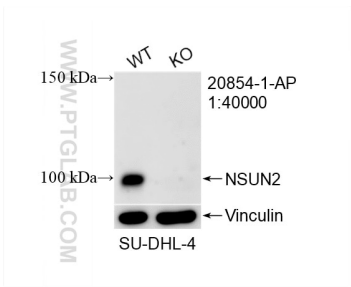
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

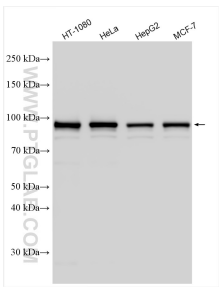
E: proteintech@ptglab.com
W: ptglab.com

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

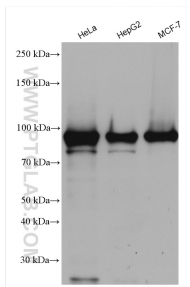
Selected Validation Data



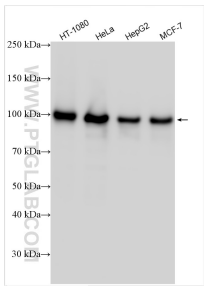
WB result of NSUN2 antibody (20854-1-AP; 1:40000; room temperature for 1.5 hours) with wild-type and NSUN2 knockout SU-DHL-4 cells.



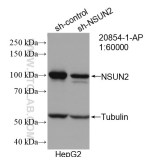
Various lysates were subjected to SDS PAGE followed by western blot with 20854-1-AP (NSUN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



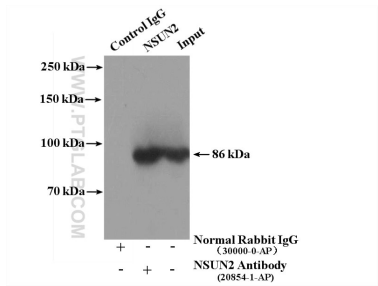
Various lysates were subjected to SDS PAGE followed by western blot with 20854-1-AP (NSUN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



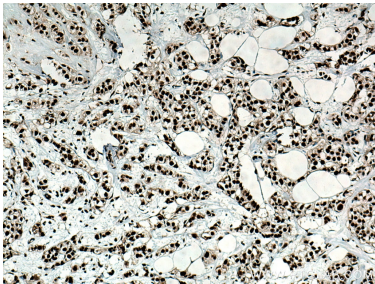
Various lysates were subjected to SDS PAGE followed by western blot with 20854-1-AP (NSUN2 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



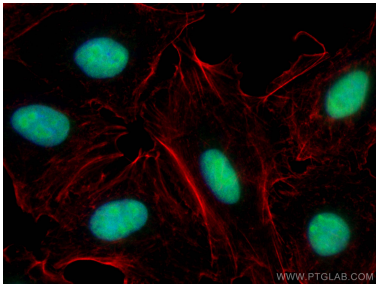
WB result of NSUN2 antibody (20854-1-AP; 1:60000; room temperature for 1.5 hours) with sh-Control and sh-NSUN2 transfected HepG2 cells.



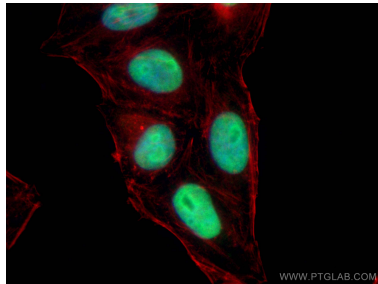
IP result of anti-NSUN2 (IP:20854-1-AP, 4ug; Detection:20854-1-AP 1:1000) with HeLa cells lysate 4000ug.



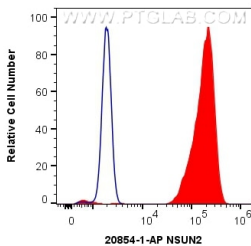
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 20854-1-AP (NSUN2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10⁶ 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).