

For Research Use Only

NSUN2 Recombinant antibody

Catalog Number: 82894-7-RR



Basic Information

Catalog Number: 82894-7-RR	GenBank Accession Number: BC001041	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 54888	CloneNo.: 230186H8
Source: Rabbit	UNIPROT ID: Q08J23	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: NOL1/NOP2/Sun domain family, member 2	
Immunogen Catalog Number: AG14791	Calculated MW: 767 aa, 86 kDa	
	Observed MW: 90-100 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human	WB : HeLa cells, HepG2 cells, HT-1080 cells, COLO 320 cells, HEK-293 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human stomach cancer tissue,
	IF/ICC : HepG2 cells,

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.

Storage

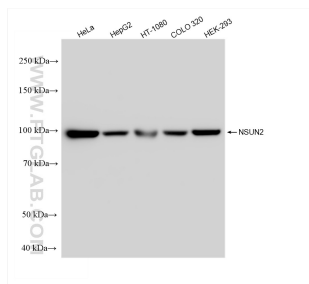
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

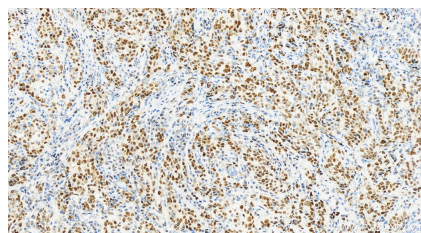
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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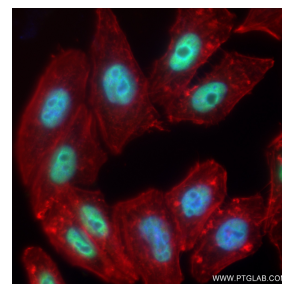
Selected Validation Data



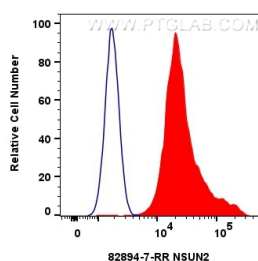
Various lysates were subjected to SDS PAGE followed by western blot with 82894-7-RR (NSUN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



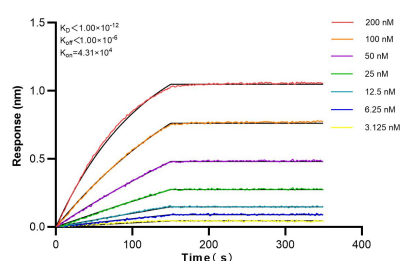
Immunohistochemical analysis of paraffin-embedded stomach cancer slide using 82894-7-RR (NSUN2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NSUN2 antibody (82894-7-RR, Clone: 230186H8) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). CL594-Phalloidin (red).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug NSUN2 Recombinant antibody (82894-7-RR, Clone:230186H8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 82894-7-RR against Human NSUN2 were performed. The affinity constant is below 1 pM.