

For Research Use Only

# NSUN2 Recombinant antibody, PBS Only (Detector)

Catalog Number: 82894-1-PBS



## Basic Information

<b>Catalog Number:</b> 82894-1-PBS	<b>GenBank Accession Number:</b> BC001041	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54888	<b>CloneNo.:</b> 230186A6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q08J23	
<b>Isotype:</b> IgG	<b>Full Name:</b> NOL1/NOP2/Sun domain family, member 2	
<b>Immunogen Catalog Number:</b> AG14791	<b>Calculated MW:</b> 767 aa, 86 kDa	

## Applications

**Tested Applications:**  
IF/ICC, FC (Intra), Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human

## Product Information

82894-1-PBS targets NSUN2 as part of a matched antibody pair:

MP00112-1: 82894-4-PBS capture and 82894-1-PBS detection (validated in Cytometric bead array)

MP00112-3: 82894-9-PBS capture and 82894-1-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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 -80°C.  
**Storage Buffer:**  
100% PBS pH 7.3

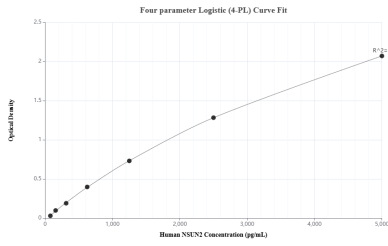
For technical support and original validation data for this product please contact:

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

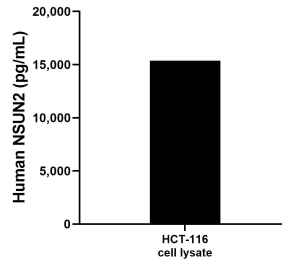
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

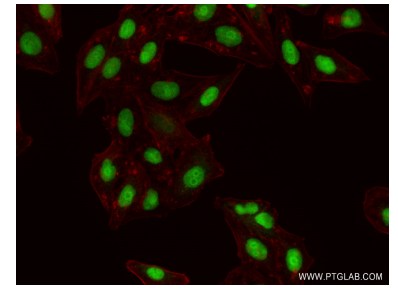
## Selected Validation Data



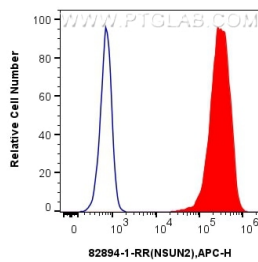
Sandwich ELISA standard curve of MP00112-3, Human NSUN2 Recombinant Matched Antibody Pair - PBS only. 82894-9-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag14791. 82894-1-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/ml



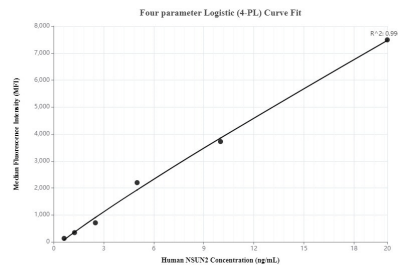
HCT-116 cell lysate was measured. The human NSUN2 concentration of detected samples was determined to be 15,374.1 pg/mL (based on a 3.0 mg/mL extract load).



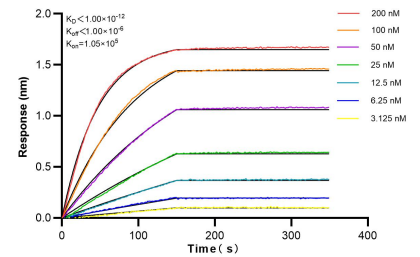
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NSUN2 antibody (82894-1-RR, Clone: 230186A6) at dilution of 1:500 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 82894-1-PBS in a different storage buffer formulation.



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25 ug Anti-Human NSUN2 (82894-1-RR, Clone:230186A6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:166 (red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone: ) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 82894-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00112-1, NSUN2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 82894-4-PBS. Detection antibody: 82894-1-PBS. Standard: Ag14791. Range: 0.625-20 ng/mL



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