

For Research Use Only

# NSUN5 Recombinant antibody, PBS Only (Detector)

Catalog Number: 84768-2-PBS



## Basic Information

<b>Catalog Number:</b> 84768-2-PBS	<b>GenBank Accession Number:</b> BC008084	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 55695	<b>CloneNo.:</b> 242168D5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96P11	
<b>Isotype:</b> IgG	<b>Full Name:</b> NOL1/NOP2/Sun domain family, member 5	
<b>Immunogen Catalog Number:</b> AG7711	<b>Calculated MW:</b> 47 kDa	
	<b>Observed MW:</b> 47-51 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Background Information

NSUN5 is a conserved RNA methyltransferase belonging to the Nop2/SUN domain family, which is highly conserved from archaea to eukaryotes and has close contact with RNA methylation because of their S-adenosyl methionine binding-domain. NSUN5 was a promoter in the progression of CRC mainly through cell cycle regulation (PMID: 32774740). Loss of NSUN5 induces growth phenotypes in mice and different mammalian cells, which is likely connected to the requirement of NSUN5 for ribosomal RNA modification and normal global protein translation, especially in highly proliferative cells (PMID: 31722427). Western blot analysis detected NSUN5 at an apparent molecular mass of 47 kDa.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

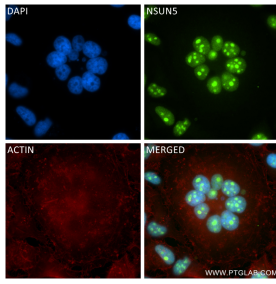
T: 4006900926

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

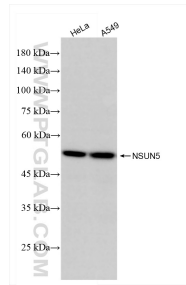
W: [ptgcn.com](http://ptgcn.com)

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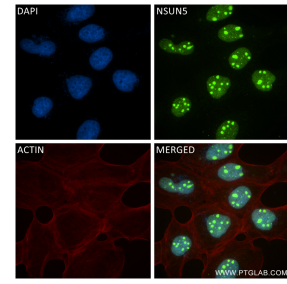
## Selected Validation Data



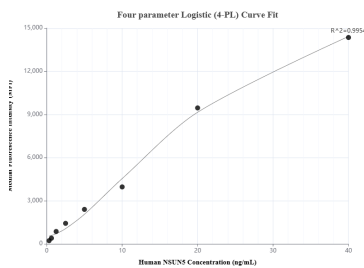
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NSUN5 antibody (84768-2-RR, Clone: 242168D5 ) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84768-2-PBS in a different storage buffer formulation.



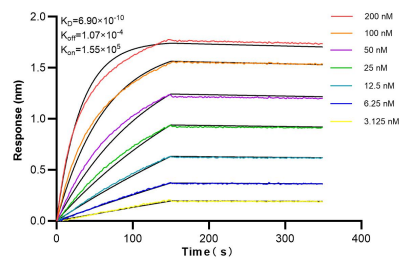
Various lysates were subjected to SDS PAGE followed by western blot with 84768-2-RR (NSUN5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84768-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using NSUN5 antibody (84768-2-RR, Clone: 242168D5 ) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84768-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01548-1, NSUN5 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84768-1-PBS. Detection antibody: 84768-2-PBS. Standard: Ag7711. Range: 0.313-40 ng/mL



Biolayer interferometry (BLI) kinetic assays of 84768-2-RR against Human NSUN5 were performed. The affinity constant is 0.69 nM.