

For Research Use Only

NSUN5 Recombinant antibody, PBS Only (Detector)

Catalog Number: 84768-2-PBS



Basic Information

Catalog Number: 84768-2-PBS	GenBank Accession Number: BC008084	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 55695	CloneNo.: 242168D5
Source: Rabbit	UNIPROT ID: Q96P11	
Isotype: IgG	Full Name: NOL1/NOP2/Sun domain family, member 5	
Immunogen Catalog Number: AG7711	Calculated MW: 47 kDa	
	Observed MW: 47-51 kDa	

Applications

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

Species Specificity:
human

Product Information

84768-2-PBS targets NSUN5 as part of a matched antibody pair.

MP01548-1: 84768-1-PBS capture and 84768-2-PBS detection (validated in Cytometric bead array)

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

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.

Storage Buffer:
PBS Only

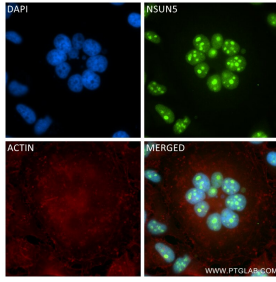
For technical support and original validation data for this product please contact:

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

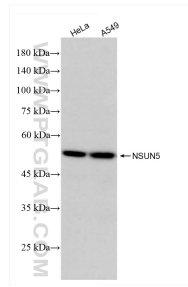
E: proteintech@ptglab.com
W: ptglab.com

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

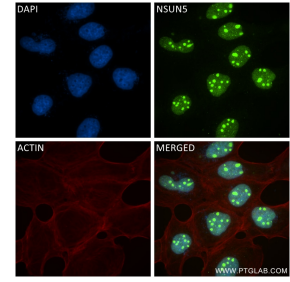
Selected Validation Data



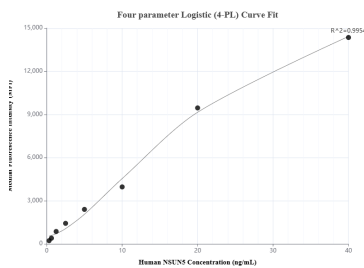
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NSUN5 antibody (84768-2-RR, Clone: 242168D5) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84768-2-PBS in a different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



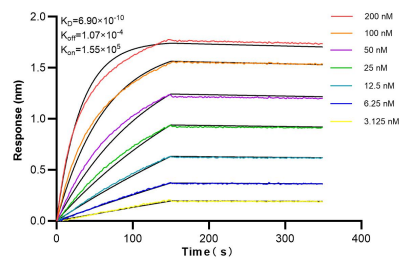
Various lysates were subjected to SDS PAGE followed by western blot with 84768-2-RR (NSUN5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84768-2-PBS in a different storage buffer formulation.



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.