

For Research Use Only

NSUN5 Recombinant antibody

Catalog Number: 84768-2-RR



Basic Information

Catalog Number: 84768-2-RR	GenBank Accession Number: BC008084	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 55695	CloneNo.: 242168D5
Source: Rabbit	UNIPROT ID: Q96P11	Recommended Dilutions: WB 1:500-1:2000 IF/ICC 1:250-1:1000
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, ELISA	Positive Controls:
Species Specificity: human	WB : HeLa cells, A549 cells IF/ICC : HeLa cells, A431 cells

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 -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

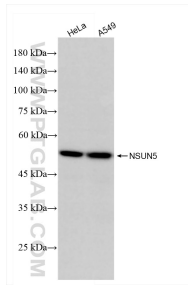
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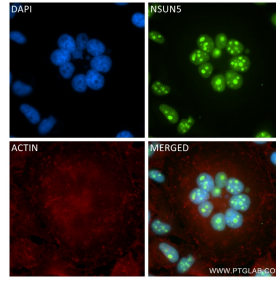
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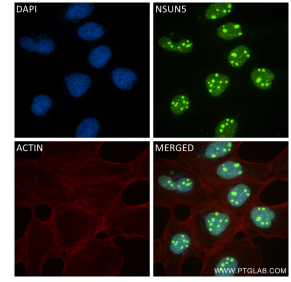
Selected Validation Data



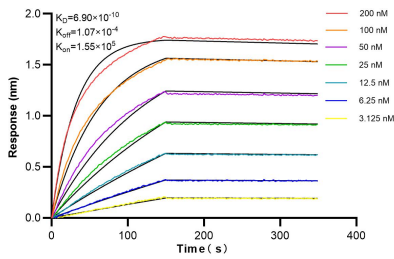
Various lysates were subjected to SDS PAGE followed by western blot with 84768-2-RR (NSUN5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).



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).



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