

For Research Use Only

NSUN5 Polyclonal antibody

Catalog Number: 15449-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number:

15449-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7711

GenBank Accession Number:

BC008084

GeneID (NCBI):

55695

UNIPROT ID:

Q96P11

Full Name:

NOL1/NOP2/Sun domain family, member 5

Calculated MW:

47 kDa

Observed MW:

47 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, A549 cells, human kidney tissue, human placenta tissue

IHC : mouse skeletal muscle tissue, human placenta tissue, human skin cancer tissue

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Wei Dai	34556860	Nat Chem Biol	WB
Xiao-Wen Zhang	36420066	Oncol Lett	WB, IHC
Tingting Zhang	30485550	Glia	WB, IF

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

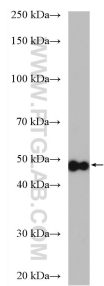
For technical support and original validation data for this product please contact:

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

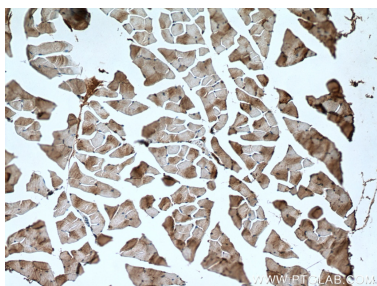
E: proteintech@ptglab.com
W: ptglab.com

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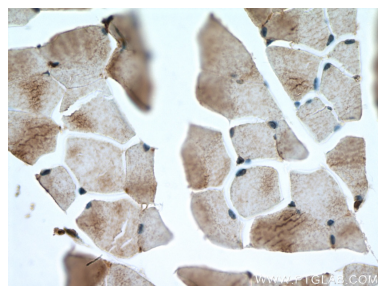
Selected Validation Data



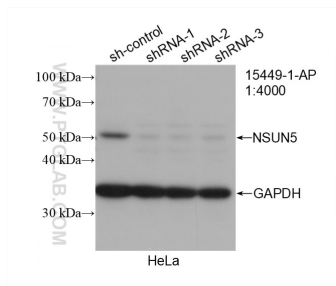
HeLa cells were subjected to SDS PAGE followed by western blot with 15449-1-AP (NSUN5 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 15449-1-AP (NSUN5 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 15449-1-AP (NSUN5 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of NSUN5 antibody (15449-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NSUN5 transfected HeLa cells.