

For Research Use Only

# NOP58 Recombinant antibody

Catalog Number: 82879-1-RR

Featured Product



## Basic Information

Catalog Number:

82879-1-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5740

GenBank Accession Number:

BC032592

GeneID (NCBI):

51602

UNIPROT ID:

Q9Y2X3

Full Name:

NOP58 ribonucleoprotein homolog (yeast)

Calculated MW:

60 kDa

Observed MW:

60 kDa

Purification Method:

Protein A purification

CloneNo.:

230058C7

Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:500-1:2000

## Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Species Specificity:

human

**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, MCF-7 cells, Jurkat cells, K-562 cells, HEK-293 cells

IP : HeLa cells,

IHC : human prostate cancer tissue,

IF/ICC : U2OS cells,

## Background Information

The box C/D snoRNPs are named for the short, conserved box C (UGAUGA) and box D (CUGA) sequences present in their RNA moiety. The box C/D sequences are also required for multiple aspects of snoRNA biogenesis, including RNA stability, intronic processing, nucleolar targeting, nuclear retention, and 59 trimethylguanosine cap formation (PMID:9649444,8878486). Nop58 is a component common to the box C/D small nucleolar ribonucleoprotein (PMID:10606270).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

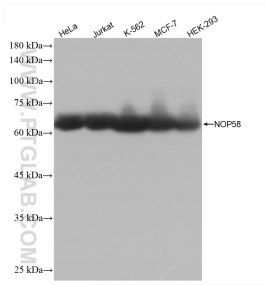
T: 4006900926

E: Proteintech-CN@ptglab.com

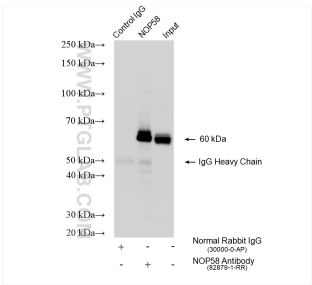
W: ptgcn.com

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

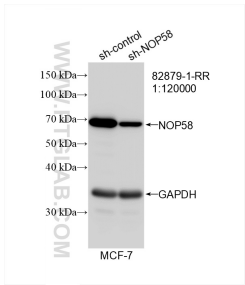
Selected Validation Data



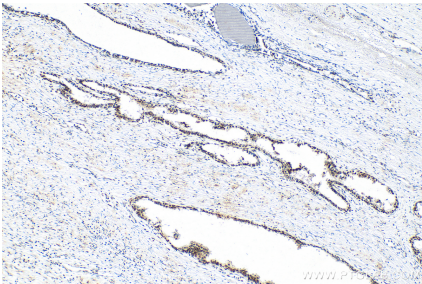
Various lysates were subjected to SDS PAGE followed by western blot with 82879-1-RR (NOP58 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



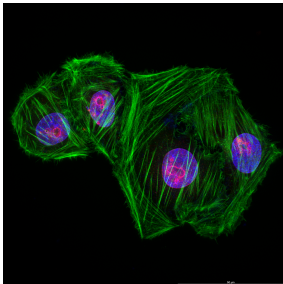
IP result of anti-NOP58 (IP:82879-1-RR, 4ug; Detection:82879-1-RR 1:2000) with HeLa cells lysate 1600 ug.



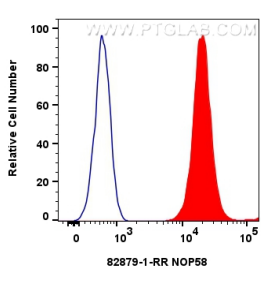
WB result of NOP58 antibody (82879-1-RR; 1:120000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NOP58 transfected MCF-7 cells.



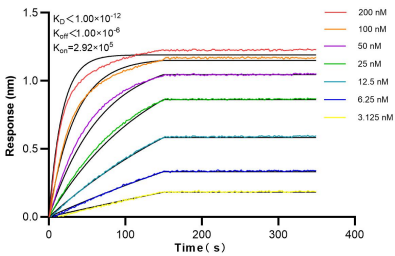
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 82879-1-RR (NOP58 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



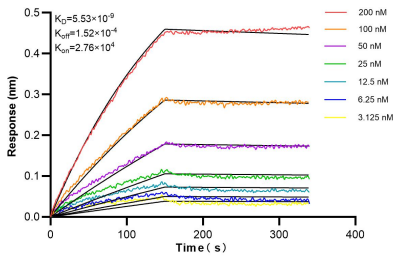
Immunofluorescent analysis of (4% PFA) fixed U2OS cells using NOP58 antibody (82879-1-RR) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR004).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug NOP58 Recombinant antibody (82879-1-RR, Clone:230058C7) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 82879-1-RR against Human NOP58 were performed. The affinity constant is below 1 pM.



Biolayer interferometry (BLI) kinetic assays of 82879-1-RR against Human NOP58 were performed. The affinity constant is 5.53 nM.