

For Research Use Only

# NOB1 Polyclonal antibody

Catalog Number:10091-2-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

10091-2-AP

### Size:

150ul , Concentration: 450 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0141

### GenBank Accession Number:

BC000050

### GeneID (NCBI):

28987

### UNIPROT ID:

Q9ULX3

### Full Name:

NIN1/RPN12 binding protein 1 homolog (S. cerevisiae)

### Calculated MW:

47 kDa

### Observed MW:

47-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:200-1:800

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human

### Cited Species:

human

### Positive Controls:

WB : HeLa cells, SGC-7901 cells, HepG2 cells, K-562 cells

IP : HepG2 cells,

IHC : mouse brain tissue, human colon cancer tissue, human placenta tissue

IF/ICC : A549 cells,

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

## Background Information

NOB1 was first identified in yeast as an essential gene encoding the Nin one binding protein, which is involved in pre-rRNA processing. In a late cytoplasmic processing step, Nob1 cleaves a 20S rRNA intermediate at cleavage site D to produce the mature 18S rRNA. In addition, NOB1 is a crucial molecule in the maturation of the 20S proteasome and protein degradation. It serves as a chaperone to join the 20S proteasome with the 19S regulatory particle in the nucleus and facilitates the maturation of the 20S proteasome. Recently NOB1 has been reported to be overexpressed in several types of cancer, suggesting its involvement in the tumorigenesis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Sabina Schütz	30201955	Nat Commun	WB
Xin Gao	27035645	Oncol Rep	
Xiao-Wen He	25624720	World J Gastroenterol	WB

## 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

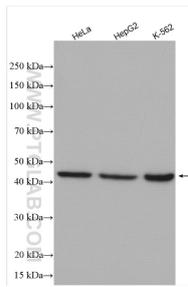
For technical support and original validation data for this product please contact:

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

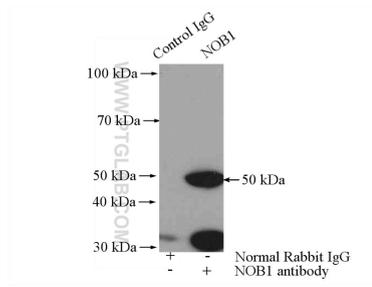
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



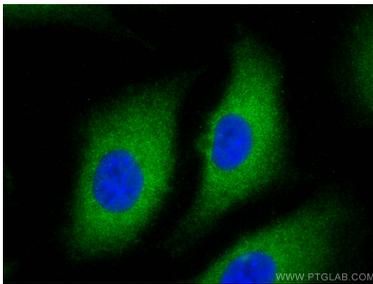
Various lysates were subjected to SDS PAGE followed by western blot with 10091-2-AP (NOB1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-NOB1 (IP:10091-2-AP, 4 $\mu$ g; Detection:10091-2-AP 1:300) with HepG2 cells lysate 2400 $\mu$ g.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10091-2-AP (NOB1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using NOB1 antibody (10091-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).