

For Research Use Only

# NOB1 Polyclonal antibody

Catalog Number: 14456-1-AP

1 Publications



## Basic Information

### Catalog Number:

14456-1-AP

### Size:

150ul, Concentration: 147 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6051

### GenBank Accession Number:

BC064630

### GeneID (NCBI):

28987

### UNIPROT ID:

Q9ULX3

### Full Name:

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

### Calculated MW:

46 kDa

### Observed MW:

47 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

## Applications

### Tested Applications:

WB, FC (Intra), ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB: Jurkat cells, L02 cells

## 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
Zhikun Shi	35836846	Am J Transl Res	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

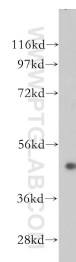
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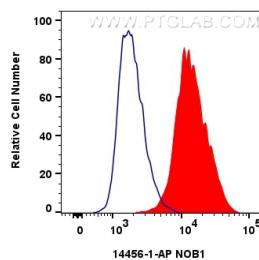
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## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 14456-1-AP (NOB1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.4 ug NOB1 Polyclonal antibody (14456-1-AP) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).