

For Research Use Only

# NUP98-NUP96 Polyclonal antibody

Catalog Number: 12329-1-AP

4 Publications



## Basic Information

### Catalog Number:

12329-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3016

### GenBank Accession Number:

BC012906

### GeneID (NCBI):

4928

### UNIPROT ID:

P52948

### Full Name:

nucleoporin 98kDa

### Calculated MW:

98 kDa

### Observed MW:

105 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:4000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human

### Cited Species:

human, mouse, pig

### Positive Controls:

WB : COLO 320 cells, Jurkat cells, HeLa cells, K-562 cells, MCF-7 cells

IP : COLO 320 cells,

IHC : human breast cancer tissue,

IF/ICC : MCF-7 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

Nup98-Nup96 (also known as Nup196, ADIR2 or ADAR2), encoded by NUP98 gene, is a component of the nuclear pore complex (NPC). It is first synthesized as 186-198 kDa Nup98-Nup96 precursors and the precursors shortly undergo autoproteolysis to give rise to two nucleoporins, the amino-terminal Nup98 (Nup98-N) and carboxy-terminal Nup96 (Nup96-C). Both of Nup98 and Nup96 are localized to the nucleoplasmic side of the NPC. This antibody was raised against the carboxy-terminal region of Nup98-Nup96, it recognizes all Nup98-Nup96 proteins except Nup98-N. Since the autoproteolysis is very rapid this antibody usually detected 98-115 kDa Nup96 protein in multiple cell lines. It is notable that RNA-editing deaminase 1 (Gene ID: 104), also named ADAR2, is a different protein from Nup98-Nup96 (ADAR2).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhixiong Liu	30876848	Neuron	WB
Mingyang Li	39826728	Int J Biol Macromol	WB
Vincent Louvel	38036510	Nat Commun	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

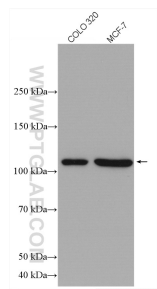
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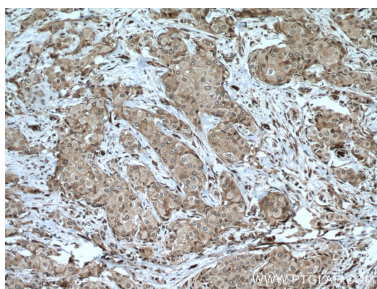
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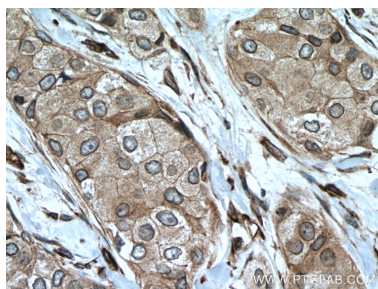
Selected Validation Data



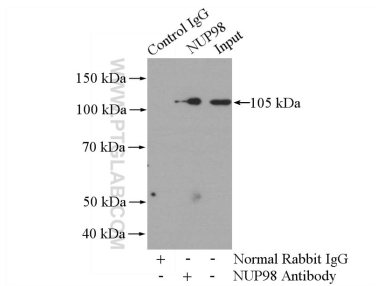
Various lysates were subjected to SDS PAGE followed by western blot with 12329-1-AP (NUP98-NUP96 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



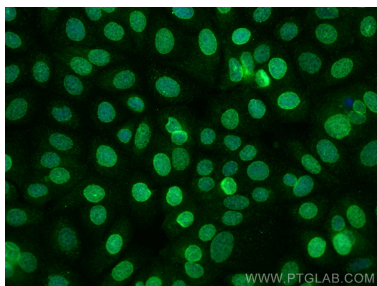
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12329-1-AP (NUP98-NUP96 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12329-1-AP (NUP98-NUP96 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-NUP98-NUP96 (IP:12329-1-AP, 4ug; Detection:12329-1-AP 1:1000) with COLO 320 cells lysate 2000ug.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using NUP98-NUP96 antibody (12329-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).