

For Research Use Only

# NUP85 Polyclonal antibody

Catalog Number: 15027-1-AP

2 Publications



## Basic Information

Catalog Number:

15027-1-AP

Concentration:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7158

GenBank Accession Number:

BC000697

GeneID (NCBI):

79902

UNIPROT ID:

Q9BW27

Full Name:

nucleoporin 85kDa

Calculated MW:

75 kDa

Observed MW:

60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:250-1:1000

IF/ICC: 1:200-1:800

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

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: COLO 320 cells, HepG2 cells

IHC: rat brain tissue, human stomach cancer tissue, mouse brain tissue, mouse testis tissue

IF/ICC: U2OS cells, MCF-7 cells

## Background Information

This gene encodes a protein component of the Nup107-160 subunit of the nuclear pore complex. NPCs are key for nucleocytoplasmic transport, but also regulate the mitotic machinery, transcription and chromatin organization through transport-independent mechanisms. The NUP107-160 complex is acknowledged to contribute to the assembly and maintenance of the NPC structure. Members of this largest subcomplex of the NPC associate with kinetochores, mitotic spindles, centrosomes and mitotic checkpoint regulators for proper completion of the cell cycle. Downregulation of NUP107-160 subcomplex members resulted in defective cytokinesis, compromised microtubule structures, altered cytoskeletal dynamics, impaired chromosome segregation and differentiation. (PMID:34170319)

## Notable Publications

| Author      | Pubmed ID | Journal                       | Application |
|-------------|-----------|-------------------------------|-------------|
| Qi Liu      | 39923382  | Colloids Surf B Biointerfaces | WB          |
| Huihui Yang | 39814977  | Pediatr Nephrol               | IHC         |

## 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:

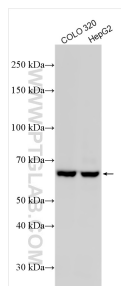
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

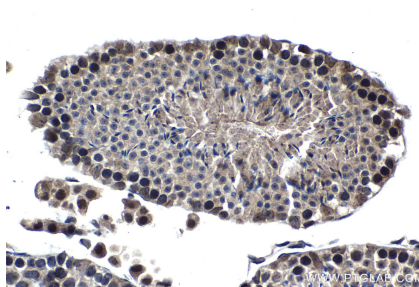
W: [ptgcn.com](http://ptgcn.com)

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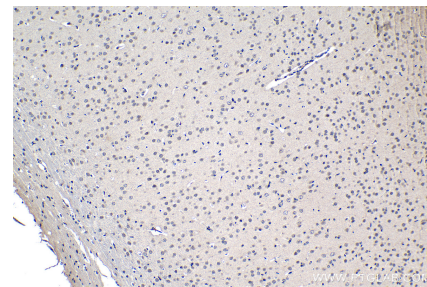
## Selected Validation Data



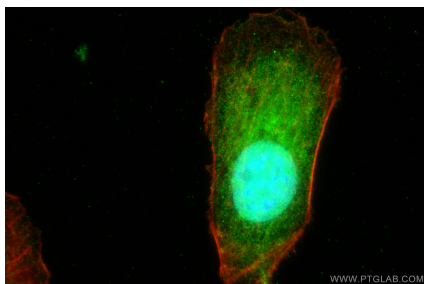
Various lysates were subjected to SDS PAGE followed by western blot with 15027-1-AP (NUP85 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 15027-1-AP (NUP85 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 15027-1-AP (NUP85 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using NUP85 antibody (15027-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).