

For Research Use Only

# Neurofibromin 2 Polyclonal antibody

Catalog Number: 21686-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

21686-1-AP

### Size:

300 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG16265

### GenBank Accession Number:

BC020257

### GeneID (NCBI):

4771

### UNIPROT ID:

P35240

### Full Name:

neurofibromin 2 (merlin)

### Calculated MW:

595 aa, 70 kDa

### Observed MW:

66-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:750-1:3000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat, canine

### Cited Species:

human, mouse, rat

**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, HepG2 cells, MCF-7 cells, HEK-293 cells, Jurkat cells, SH-SY5Y cells, NIH/3T3 cells, MDCK cells, mouse brain tissue, rat brain tissue

**IP:** HeLa cells,

**IHC:** mouse brain tissue, human meningioma tissue

**IF/ICC:** HeLa cells,

## Background Information

Neurofibromatosis 2 (NF2) tumor suppressor protein-merlin is involved in Hippo/SWH signaling pathway that associated with tumor suppression by restricting proliferation and promoting apoptosis. It has been reported that merlin can change to phosphorylation form which inactivates merlin tumor suppressive abilities at serine 518 induced by Rac effector p21-activated kinase 2. The mutation of the NF2 tumor suppressor gene may lead to nervous system tumors, mesotheliomas and metastatic tumors.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hua-Chun Rao	33061594	Cancer Manag Res	WB
Chunxiao Yu	30244634	Thyroid	WB
Lai Wei	33116587	Onco Targets Ther	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

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

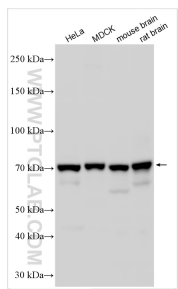
T: 4006900926

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

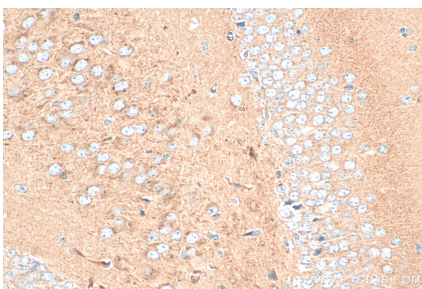
W: [ptgcn.com](http://ptgcn.com)

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

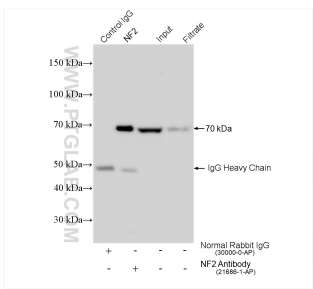
Selected Validation Data



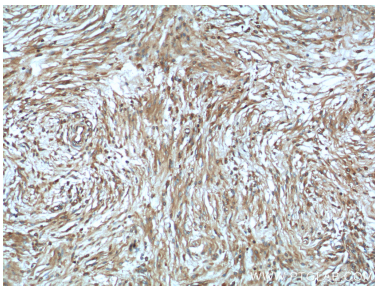
Various lysates were subjected to SDS PAGE followed by western blot with 21686-1-AP (NF2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



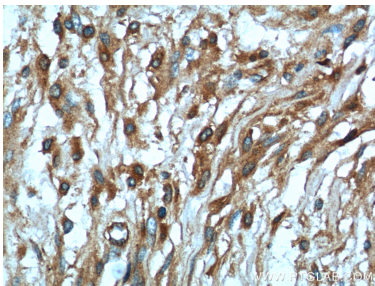
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21686-1-AP (NF2 antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



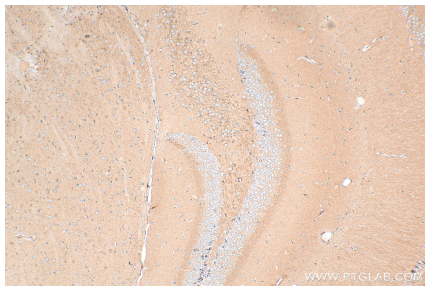
IP result of anti-NF2 (IP:21686-1-AP, 4ug; Detection:21686-1-AP 1:5000) with HeLa cells lysate 1560 ug.



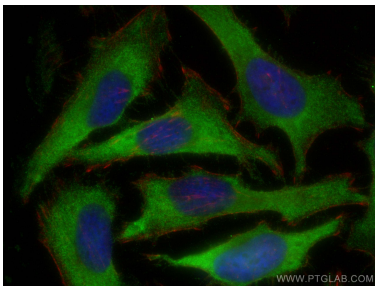
Immunohistochemical analysis of paraffin-embedded human meningioma tissue slide using 21686-1-AP (NF2 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human meningioma tissue slide using 21686-1-AP (NF2 Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21686-1-AP (NF2 antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using NF2 antibody (21686-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).