

For Research Use Only

Neurofibromin 2 Polyclonal antibody

Catalog Number: 21686-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

21686-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

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 ug 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

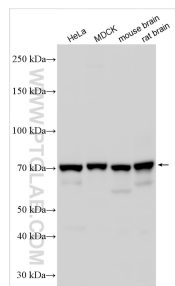
For technical support and original validation data for this product please contact:

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

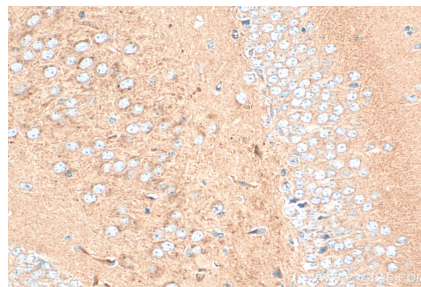
E: proteintech@ptglab.com
W: ptglab.com

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

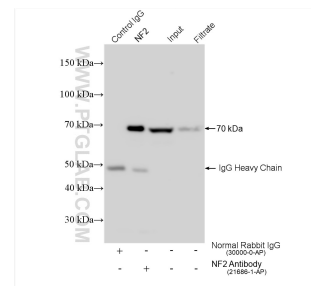
Selected Validation Data



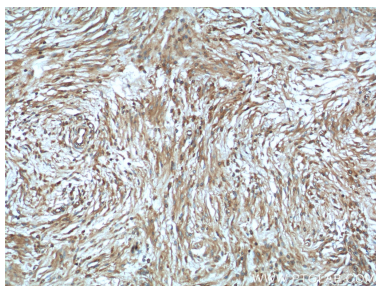
Various lysates were subjected to SDS PAGE followed by western blot with 21686-1-AP (NF2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



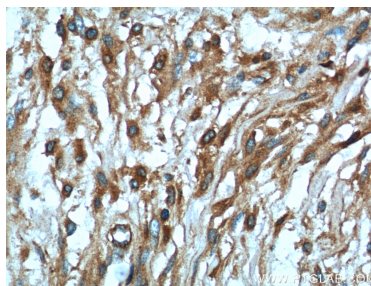
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21686-1-AP (NF2 antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



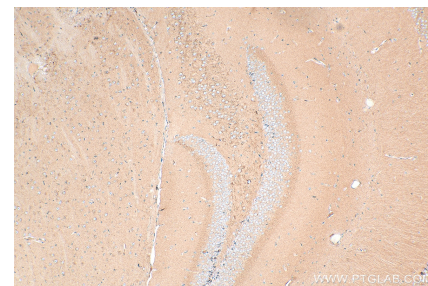
IP result of anti-NF2 (IP:21686-1-AP, 4ug; Detection:21686-1-AP 1:5000) with HeLa cells lysate 1560 ug.



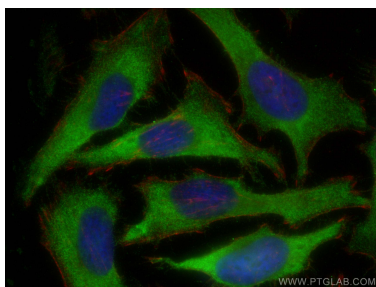
Immunohistochemical analysis of paraffin-embedded human meningioma tissue slide using 21686-1-AP (NF2 Antibody) at dilution of 1:50 (under 10x lens).



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).