

For Research Use Only

AFG3L2 Polyclonal antibody

Catalog Number: 14631-1-AP

Featured Product

26 Publications



Basic Information

Catalog Number:

14631-1-AP

Size:

650 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6209

GenBank Accession Number:

BC065016

GeneID (NCBI):

10939

UNIPROT ID:

Q9Y4W6

Full Name:

AFG3 ATPase family gene 3-like 2 (yeast)

Calculated MW:

88 kDa

Observed MW:

80-90 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 1:100-1:400

IF 1:10-1:100

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, zebrafish

Positive Controls:

WB: HeLa cells, mouse skeletal muscle tissue, mouse kidney tissue, Jurkat cells, mouse brain tissue, mouse liver tissue, rat liver tissue

IP: HeLa cells,

IHC: human kidney tissue,

IF: HepG2 cells, HeLa 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

AFG3L2 is the catalytic subunit of the m-AAA protease, an ATP-dependent proteolytic complex of the mitochondrial inner membrane that degrades misfolded proteins and regulates ribosome assembly (PMID:17101804). Human AFG3L2 is an 80-kDa protein encoded by a 17-exon gene and highly and selectively expressed in human cerebellar Purkinje cells (PMID:20208537) and it can exist as a truncated 65 kDa protein (PMID:18337413). Defects in AFG3L2 are the cause of spinocerebellar ataxia type 28 (SCA28) and spastic ataxia autosomal recessive type 5 (SPAX5).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------|-----------|---------------|-------------|
| Uwe Richter | 26504172 | J Cell Biol | WB |
| Kah Ying Ng | 34718584 | Hum Mol Genet | WB |
| Hao Liu | 36245295 | EMBO J | WB,IP |

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:

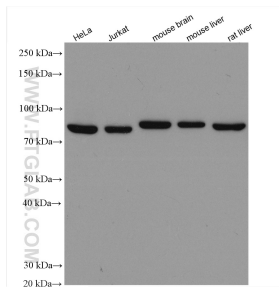
T: 4006900926

E: Proteintech-CN@ptglab.com

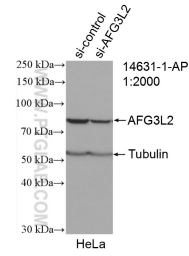
W: ptgcn.com

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

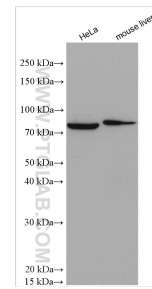
Selected Validation Data



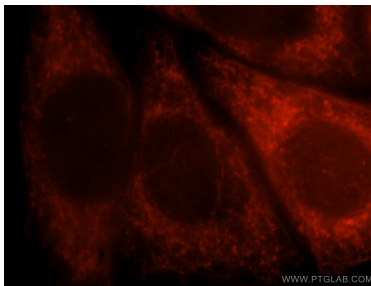
Various lysates were subjected to SDS PAGE followed by western blot with 14631-1-AP (AFG3L2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



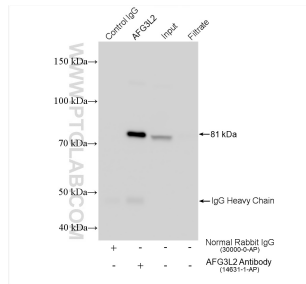
WB result of AFG3L2 antibody (14631-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AFG3L2 transfected HeLa cells.



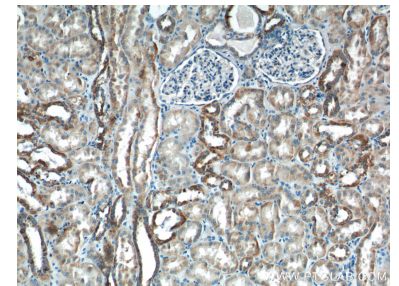
Various lysates were subjected to SDS PAGE followed by western blot with 14631-1-AP (AFG3L2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



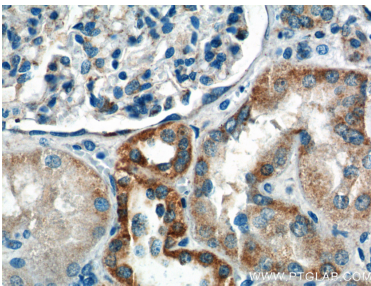
Immunofluorescent analysis of HepG2 cells, using AFG3L2 antibody 14631-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-AFG3L2 (IP:14631-1-AP, 4ug; Detection:14631-1-AP 1:5000) with HeLa cells lysate 1560 ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14631-1-AP (AFG3L2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 14631-1-AP (AFG3L2 Antibody) at dilution of 1:200 (under 40x lens).