For Research Use Only

AFG3L2 Polyclonal antibody

Catalog Number: 14631-1-AP

Featured Product

28 Publications



Basic Information

Catalog Number: 14631-1-AP

Size:

Nanodrop:

GenBank Accession Number:

BC065016

GeneID (NCBI):

150ul , Concentration: 650 ug/ml by 10939

UNIPROT ID:

Source: Q9Y4W6
Rabbit Full Name:

Isotype: AFG3 ATPase family gene 3-like 2

IgG (yeast)

Immunogen Catalog Number: Calculated MW:

AG6209 88 kDa

Observed MW: 80-90 kDa

ed MW:

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF, IP

Species Specificity: human, mouse, rat

Cited Species:

human, mouse, zebrafish

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, mouse skeletal muscle tissue, mouse kidney tissue, Jurkat cells, mouse brain tissue, mouse

Purification Method:

WB 1:2000-1:16000

protein lysate

IHC 1:100-1:400

IF/ICC 1:10-1:100

Antigen affinity purification

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

Recommended Dilutions:

liver tissue, rat liver tissue

IP: HeLa cells,

IHC: human kidney tissue,

IF/ICC: HepG2 cells, HeLa cells

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 exsit 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

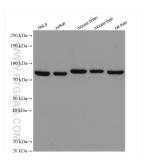
*** 20ul sizes contain 0.1% BSA

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

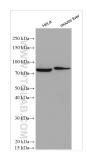
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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.

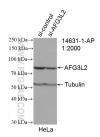
Selected Validation Data



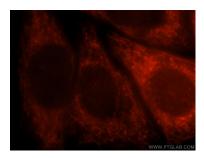
Various lysates were subjected to SDS PAGE followed by western blot with 14631-1-AP (AFG3L2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



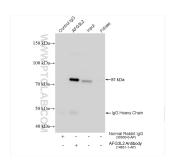
Various lysates were subjected to SDS PAGE followed by western blot with 14631-1-AP (AFG3L2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



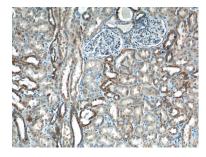
WB result of AFG3L2 antibody (14631-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AFG3L2 transfected HeLa cells.



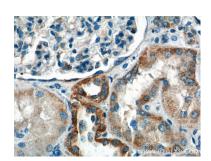
Immunofluorescent analysis of HepG2 cells, using AFG3L2 antibody 14631-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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



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