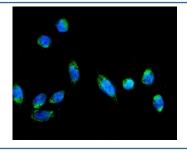


# AFG3L2 Antibody / AFG3 like protein 2 (R32419)

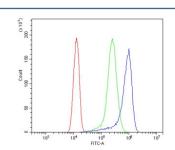
Catalog No.	Formulation	Size
R32419	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

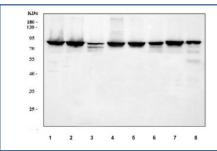
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q9Y4W6
Applications	Western Blot : 0.1-0.5ug/ml Immunofluorescence (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/million cells Immunoprecipitation : 2ug/500ug of lysate
Limitations	This AFG3L2 antibody is available for research use only.



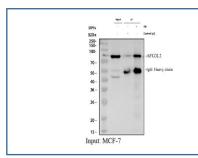
Immunofluorescent staining of FFPE human U-2 OS cells with AFG3L2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of fixed and permeabilized human A431 cells with AFG3L2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AFG3L2 antibody.



Western blot testing of 1) human HeLa, 2) human MCF7, 3) human Jurkat, 4) human MDA-MB-453, 5) rat brain, 6) rat liver, 7) mouses brain and 8) mouse liver tissue lysate with AFG3L2 antibody. Expected molecular weight ~89 kDa.



Immunoprecipitation of AFG3L2 protein from 500ug of human MCF7 whole cell lysate with 2ug of AFG3L2 antibody.

## **Description**

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. In humans, it is encoded by the AFG3L2 gene. This gene encodes a protein localized in mitochondria and closely related to paraplegin. The paraplegin gene is responsible for an autosomal recessive form of hereditary spastic paraplegia. And this gene is a candidate gene for other hereditary spastic paraplegias or neurodegenerative disorders as well as spastic ataxia-neuropathy syndrome.

## **Application Notes**

Optimal dilution of the AFG3L2 antibody should be determined by the researcher.

### **Immunogen**

Amino acids R168-D250 of the human protein were used as the immunogen for the AFG3L2 antibody.

#### **Storage**

After reconstitution, the AFG3L2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.