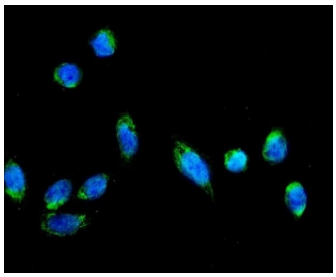
AFG3L2 Antibody / AFG3 like protein 2 (R32419)

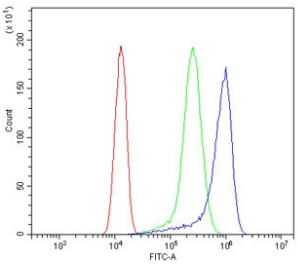
Catalog No.	Formulation	Size
R32419	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

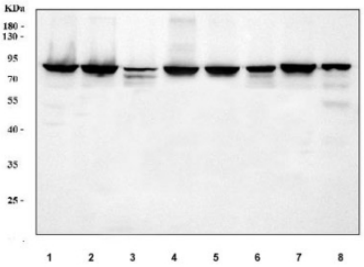
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q9Y4W6
Applications	Western Blot : 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.



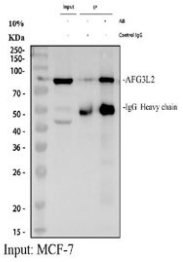
Immunofluorescent staining of FFPE human U-2 OS cells with AFG3L2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



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.