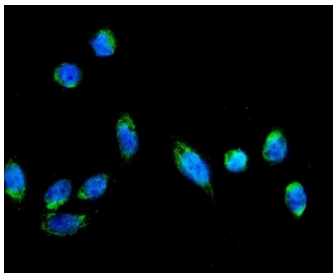
# AFG3L2 Antibody / AFG3 like protein 2 (R32419)

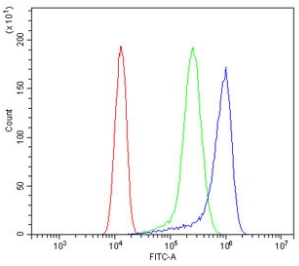
| Catalog No. | Formulation | Size |
|---|---|---|
| R32419 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

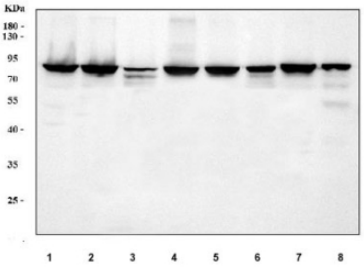
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized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



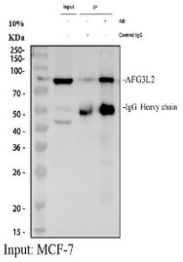
Immunofluorescent staining of FFPE human U-2 OS cells with AFG3L2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.




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.

Copyright © NSJ Bioreagents. All rights reserved.