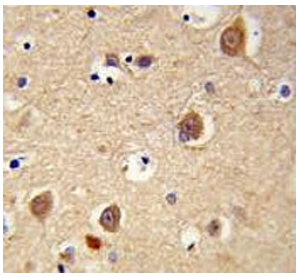
# AIF Antibody / AIFM1 / Apoptosis-Inducing Factor (F54468)

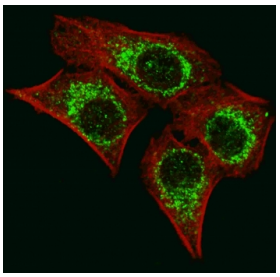
| Catalog No. | Formulation | Size |
|---|---|---|
| F54468-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F54468-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

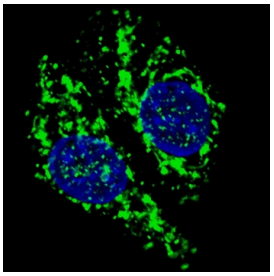
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity purified |
| **UniProt** | O95831 |
| **Localization** | Cytoplasmic, nuclear |
| **Applications** | Flow cytometry: 1:25 (1x10e6 cells)<br>Immunohistochemistry (FFPE): 1:25<br>Western blot: 1:500-1:2000<br>Immunofluorescence: 1:25 |
| **Limitations** | This AIF antibody is available for research use only. |



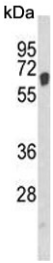
IHC testing of FFPE human brain tissue with AIF antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



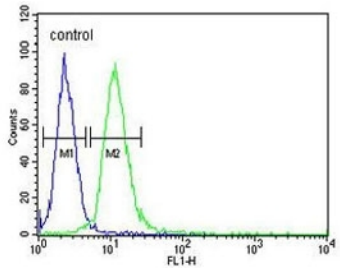
Immunofluorescent staining of fixed and permeabilized human U-251 cells with AIF antibody (green) and anti-Actin (red).



Immunofluorescent staining of fixed and permeabilized Chloroquine-treated human U-251 cells with AIF antibody (green) and DAPI (blue).




Western blot testing of human HEK293 cell lysate with AIF antibody. Predicted molecular weight ~67 kDa.




Flow cytometry testing of human HEK293 cells with AIF antibody; Blue=isotype control, Green= AIF antibody.

## Description

AIFM1 is a flavoprotein essential for nuclear disassembly in apoptotic cells that is found in the mitochondrial intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it effects chromosome condensation and fragmentation. In addition, this protein induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the AIF antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 70-98 from the human protein was used as the immunogen for the AIF antibody.

## Storage

Aliquot the AIF antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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