

## Summary

|                        |                               |
|------------------------|-------------------------------|
| <b>Production Name</b> | AIF Mouse Monoclonal Antibody |
| <b>Description</b>     | Mouse Monoclonal Antibody     |
| <b>Host</b>            | Mouse                         |
| <b>Application</b>     | WB,IHC,ICC,FC,ELISA           |
| <b>Reactivity</b>      | Human,Mouse,Rat,,Monkey       |

## Performance

|                     |  |
|---------------------|--|
| <b>Conjugation</b>  | Unconjugated   |
| <b>Modification</b> | Unmodified   |
| <b>Isotype</b>      | Mouse IgG2b  |
| <b>Clonality</b>    | Monoclonal   |
| <b>Form</b>         | Liquid   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| <b>Buffer</b>       | Purified antibody in PBS with 0.05% sodium azide.  |
| <b>Purification</b> | Affinity Purification  |

## Immunogen

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | AIF   |
| <b>Alternative Names</b> | AIFM1; AIF; PDCD8; COXPD6; MGC111425                                    |
| <b>Gene ID</b>           | 9131.0  |
| <b>SwissProt ID</b>      | O95831.Purified recombinant fragment of human AIF expressed in E. Coli. |

## Application

|                         |  |
|-------------------------|--|
| <b>Dilution Ratio</b>   | WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000 |
| <b>Molecular Weight</b> | 67kDa  |

## Background

This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it is found in the mitochondrial

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**Catalog #: AMM81018**

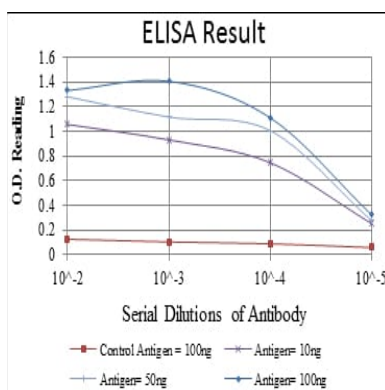


intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it affects chromosome condensation and fragmentation. In addition, this gene product induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. Mutations in this gene cause combined oxidative phosphorylation deficiency 6, which results in a severe mitochondrial encephalomyopathy. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 10

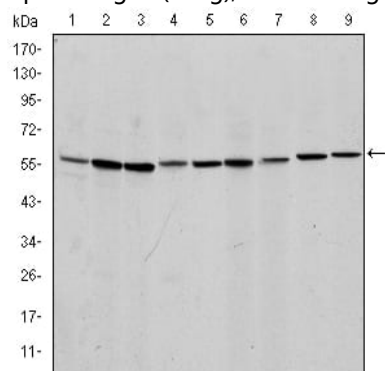
## Research Area

Apoptosis

## Image Data

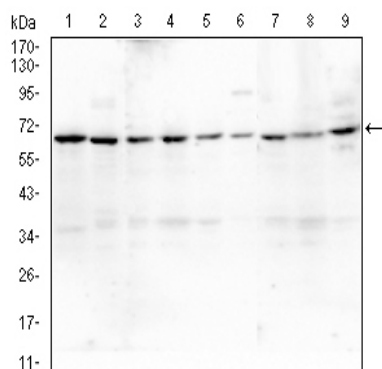


Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);

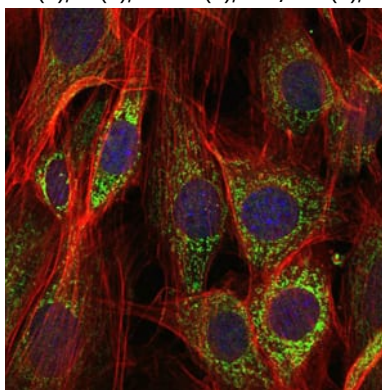


Western blot analysis using AIF mouse mAb against NIH/3T3 (1), Jurkat (2), Hela (3), HepG2 (4), MOLT4 (5), C6 (6), RAJI (7), Cos7 (8) and PC-12 (9) cell lysate.

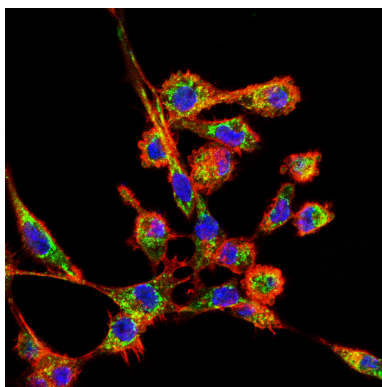
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Western blot analysis using AIF mouse mAb against  
CHO3D10(1),COS7(2),F9(3),L1210(4),C6(5),C2C12(6),NIH/3T3(7),Raw264.7(8),PC-12(9) cell lysate.



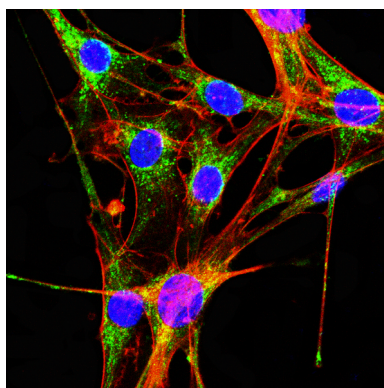
Immunofluorescence analysis of NIH/3T3 cells using AIF mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



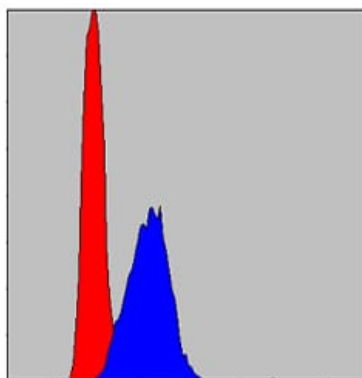
Immunofluorescence analysis of RSC-96 cells using AIF mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

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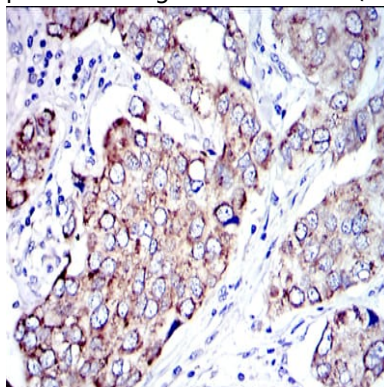
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Immunofluorescence analysis of NIH3T3 cells using AIF mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



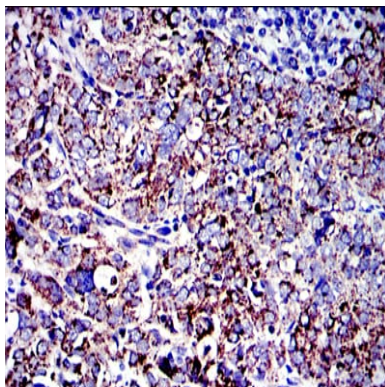
Flow cytometric analysis of HepG2 cells using AIF mouse mAb (blue) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissues using AIF mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using AIF mouse mAb with DAB staining.

**Note**

For research use only.