

## DATASHEET

# AIFM1 Mouse Monoclonal Antibody(C3494)

CAT. NO. AMA03106

### KEY FEATURES

|               |   |               |              |
|---------------|---|---------------|--------------|
| Target        | AIFM1   | Source / Host | Mouse        |
| Reactivity    | Human   | Clonality     | Monoclonal   |
| Applications  | WB, IF/ICC  | Conjugation   | Unconjugated |
| Form / Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. | Storage       | at-20°C      |

### BACKGROUND

Functions both as NADH oxidoreductase and as regulator of apoptosis . In response to apoptotic stimuli, it is released from the mitochondrion intermembrane space into the cytosol and to the nucleus, where it functions as a proapoptotic factor in a caspase-independent pathway . Release into the cytoplasm is mediated upon binding to poly-ADP-ribose chains . The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i.e. caspase-independent fragmentation of chromosomal DNA . Binds to DNA in a sequence-independent manner . Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates caspase-7 to amplify apoptosis . Plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells .

### APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|        |                |
|--------|----------------|
| WB     | 1:500 - 1:1000 |
| IF/ICC | 1:50 - 1:100   |

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

### PRODUCT OVERVIEW

|                   |  |
|-------------------|--|
| Description       | Mouse monoclonal antibody to AIFM1   |
| Specificity       | Recognizes endogenous levels of AIFM1 protein.   |
| Antibody Type     | Primary antibody   |
| Immunogen         | Purified recombinant human AIF protein fragments expressed in E.coli.                  |
| Purification      | The antibody was purified by immunogen affinity chromatography.                        |
| Molecular Weight  | Predicted: 67 kD; Observed: 67 kD  |
| Form/Buffer       | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.        |
| Alternative Names | AIF; PDCD8; Apoptosis-inducing factor 1 mitochondrial; Programmed cell death protein 8 |
| Gene Symbol       | AIFM1  |
| Entrez Gene       | 9131(Human)  |
| SwissProt         | O95831(Human)  |

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

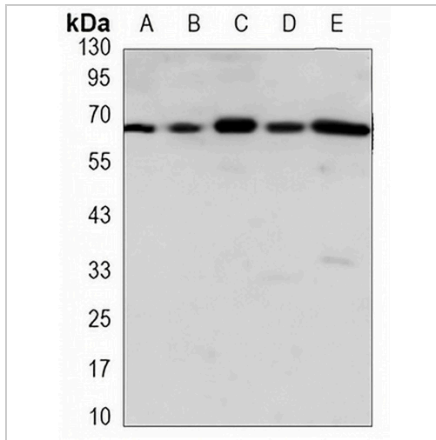
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

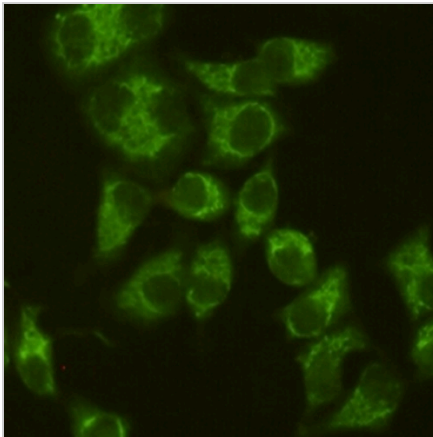
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**DATA**



Western blot analysis of AIFM1 expression in HeLa (A), Ramos (B), HepG2 (C), MCF7 (D), Jurkat (E) whole cell lysates. (Predicted band size: 67 kD; Observed band size: 67 kD)



Immunofluorescent analysis of AIFM1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.