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# **Human AIF/AIFM1 antibody**

Catalog Number: ATGA0411

# **PRODUCT INFORMATION**

## Catalog number

ATGA0411

### Clone No.

AT22E9

# **Product type**

Monoclonal Antibody

### UnitProt No.

095831

## **NCBI Accession No.**

NP 665811

## **Alternative Names**

Apoptosis-inducing factor 1 mitochondrial isoform 2 precursor, AIF, CMTX4, COWCK, COXPD6, PDCD8

## **PRODUCT SPECIFICATION**

## **Antibody Host**

Mouse

### **Reacts With**

Human

## Concentration

1mg/ml (determined by BCA assay)

### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

### **Immunogen**

Recombinant human AIFM1 (98-609aa) purified from E. coli

# Isotype

IgG2a kappa

## **Purification Note**

By protein-A affinity chromatography

# **Application**

ELISA, WB, ICC/IF

## Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

## **Storage**



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

## **Description**

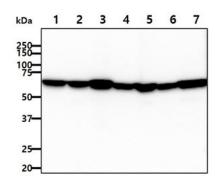
Apoptosis-inducing factor 1, also known as AIFM1, is a mitochondrial protein that translocates to the nucleus upon induction of apoptosis. AIFM1 has been shown to cause DNA fragmentation and chromatin condensation and to induce the release of cytochrome c and caspase-9 from mitochondria. Bcl-2 overexpression has been shown to prevent the release of AIFM1 from mitochondria, but not to block its apoptogenic activity. Mutations in this gene cause combined oxidative phosphorylation deficiency 6, which results in a severe mitochondrial encephalomyopathy.

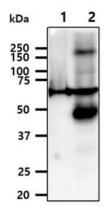
### **General References**

Tang Y., et al. (2013) J Proteomics. 91C: 200-209. Kim TW., et al. (2013) Cell Death Dis. 4: e919.

# **DATA**

# Western blot analysis (WB)





The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AIFM1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Jurkat cell lysate Lane 2.: HeLa cell lysate Lane 3.: Hep3B cell lysate Lane 4.: Raji cell lysate Lane 5.: K562 cell lysate Lane 6.: MCF7 cell lysate Lane 7.: CTLL2 cell lysate

The tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AIFM1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : Mouse heart tissue lysate Lane 2. : Mouse liver tissue lysate

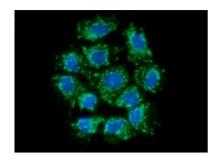
Immunocytochemistry/Immunofluorescence (ICC/IF)



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ICC/IF analysis of AIFM1 in Hep3B cells. The cell was stained with ATGA0411 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

