



**Category: Monoclonal Antibodies    Cat. #: MAB-606030245**  
**Product Name: Mouse Monoclonal Antibody to AIF**

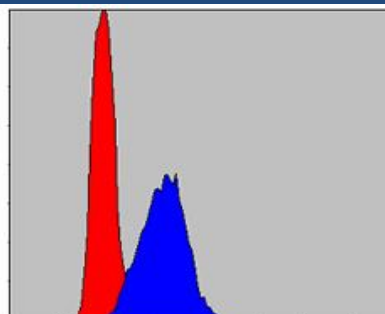


Figure 8: Flow cytometric analysis of HepG2 cells using AIF mouse mAb (blue) and negative control (red).

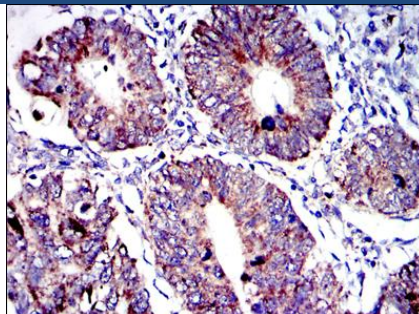


Figure 5: Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using AIF mouse mAb with DAB staining.

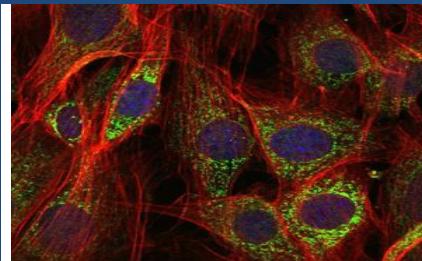


Figure 7: Immunofluorescence analysis of NIH/3T3 cells using AIF mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin

<b>Clone#</b>	4E7	<b>Lot#</b>	
<b>Host and isotype</b>	Mouse IgG2b	<b>Aliases</b>	AIFM1; AIF; PDCD8; COXPD6; MGC111425
<b>Species reactivity</b>	Human; Mouse; Monkey; Rat	<b>Entrez Gene</b>	9131
<b>Size</b>	0.1ml	<b>MW</b>	67kDa

**Description**

This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it 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 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

**Immunogen**

Purified recombinant fragment of human AIF expressed in E. Coli.

**Applications**

- Western Blotting: 1/500 - 1/2000.
- Immunohistochemistry: 1/200 - 1/1000.
- Immunofluorescence: 1/200 - 1/1000.
- Flow cytometry: 1/200 - 1/400.
- ELISA: Propose dilution 1/10000.
- Not yet tested in other applications.
- Determining optimal working dilutions by titration test.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**Storage**

Store at 4°C, for long term storage, store at -20°C.

**Related product**

**References**

1. Apoptosis. 2009 Jun;14(6):796-808.
2. PLoS One. 2009;4(2):e4394. Epub 2009 Feb 6.

**For Research Use Only**

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