BT LAB
Bioassay Technology Laboratory
Optimize Your Research

AIF Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2541
Host	Mouse
Isotype	Mouse IgG2b
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of human AIF expressed in E. Coli.
Mol wt	67kDa
Species reactivity	Human,Mouse,Monkey,Rat
Clonality	Monoclonal
Recommended application	WB,IHC,ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	AIFM1;AIF;PDCD8;COXPD6;MGC111425

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

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

Recommended Dilution

WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

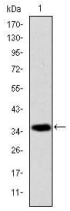
ICC: 1:200 - 1:1000

FCM: 1:200 - 1:400

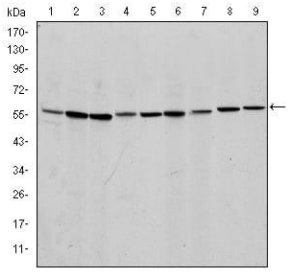
ELISA: 1:10000

Not yet tested in other applications.

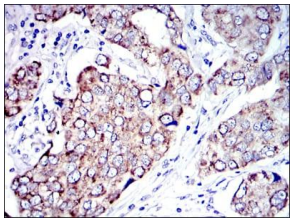
Images



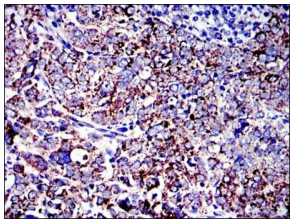
Western blot analysis using AIF mAb against human AIF (AA: 1-261) recombinant protein. (Expected MW is 35.6 kDa)



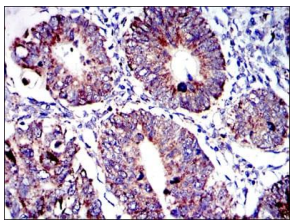
Western blot analysis using AIF mouse mAb against NIH/3T3 (1), Jurkat (2), Hela (3), HepG2 (4), MOLT4 (5), C6 (6), RAJI (7), Cos7 (8) and PC-12 (9) cell lysate.



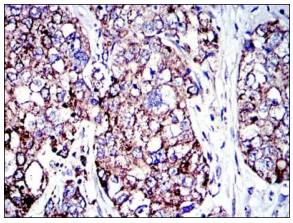
Immunohistochemical analysis of paraffin-embedded human breast cancer tissues using AIF mouse mAb with DAB staining.



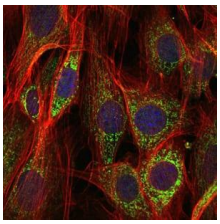
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using AIF mouse mAb with DAB staining.



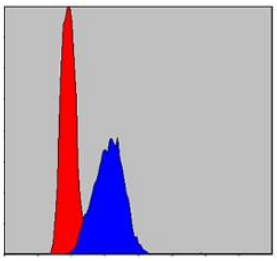
Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using AIF mouse mAb with DAB staining.



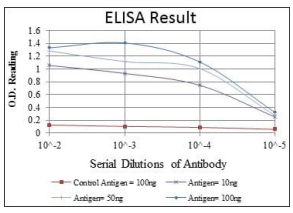
Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using AIF mouse mAb with DAB staining.



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.



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



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

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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