

AIF-M1 Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA0140
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of human AIF-M1 expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human,Mouse,Rat,Monkey
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, ICC, FCM, ELISA
Concentration	1 mg/ml
Full name	Apoptosis-inducing factor 1 mitochondrial
Synonyms	AIFM1; AIF; PDCD8; Apoptosis-inducing factor 1; mitochondrial; Programmed cell death protein 8; ACTN3

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 (COXPD6), a severe mitochondrial encephalomyopathy, as well as Cowchock syndrome, also known as X-linked recessive Charcot-Marie-Tooth disease-4 (CMTX-4), a disorder resulting in neuropathy, and axonal and motor-sensory defects with deafness and mental retardation. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome

Recommended Dilution

FC: 1:200 - 1:400

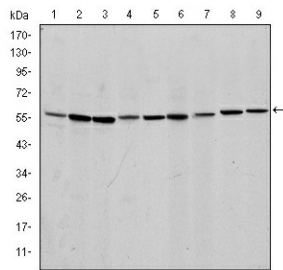
IF: 1:200 - 1:1000

IHC: 1:200 - 1:1000

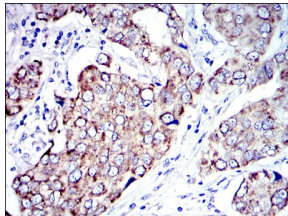
WB: 1:500 - 1:2000

Not yet tested in other applications.

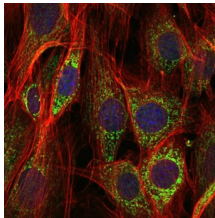
Images



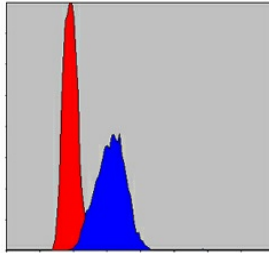
Western Blot analysis using AIF-M1 Monoclonal antibody against NIH/3T3 (1) Jurkat (2) HeLa (3) HepG2 (4) MOLT4 (5) C6 (6) RAJI (7) Cos7 (8) and PC-12 (9) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human breast cancer tissues with DAB staining using AIF-M1 Monoclonal antibody.



Immunofluorescence analysis of NIH/3T3 cells using AIF-M1 Monoclonal antibody (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-M1 Monoclonal antibody (blue) and negative control (red).

Storage

-20°C for one year

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