

Product Name: AIF-M1 Rabbit Polyclonal Antibody
Catalog #: APRab06701



Summary

Production Name	AIF-M1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	AIFM1
Alternative Names	AIFM1; AIF; PDCD8; Apoptosis-inducing factor 1; mitochondrial; Programmed cell death protein 8
Gene ID	9131.0
SwissProt ID	O95831.The antiserum was produced against synthesized peptide derived from human AIFM1. AA range:51-100

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.
Molecular Weight	67kD

Product Name: AIF-M1 Rabbit Polyclonal Antibody
Catalog #: APRab06701



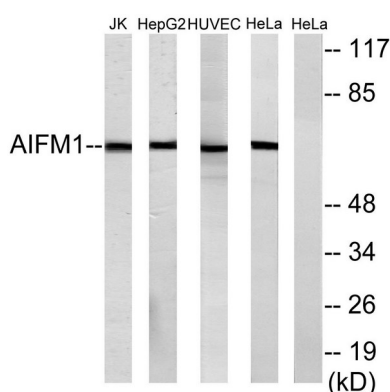
Background

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 17. **activity:**2 glutathione + protein-disulfide = glutathione disulfide + protein-dithiol.,**cofactor:**FAD.,**function:**Possesses significant protein thiol-disulfide oxidase activity.,**function:**Probable oxidoreductase that acts as a caspase-independent mitochondrial effector of apoptotic cell death. Extramitochondrial AIF induces nuclear chromatin condensation and large scale DNA fragmentation (in vitro). Binds to DNA in a sequence-independent manner.,**similarity:**Belongs to the FAD-dependent oxidoreductase family.,**similarity:**Contains 1 thioredoxin domain.,**subcellular location:**Translocated to the nucleus upon induction of apoptosis.,**subunit:**Interacts with XIAP.,**tissue specificity:**Widely expressed.,

Research Area

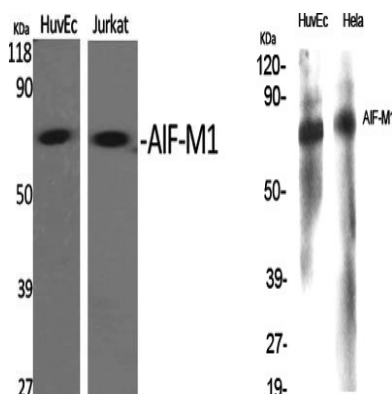
Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;

Image Data



Western blot analysis of lysates from HUVEC cells, HepG2 cells, HeLa cells, and Jurkat cells, using AIFM1 Antibody. The lane on the right is blocked with the synthesized peptide.

Product Name: AIF-M1 Rabbit Polyclonal Antibody
Catalog #: APRab06701



Western Blot analysis of various cells using AIF-M1 Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of Jurkat cells using AIF-M1 Polyclonal Antibody diluted at 1: 1000

Note

For research use only.