

Anti-AIF Antibody

Mouse Monoclonal Antibody
 Catalog # AP53426-100 □

Specification

Anti-AIF Antibody - Product Information

Application	WB, IF
Primary Accession	Q95831
Other Accession	NM_004208
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Immunogen	Purified recombinant human AIF protein fragments expressed in E.coli.
Purification	Affinity purified
Calculated MW	67 KDa

Anti-AIF Antibody - Additional Information

Gene ID 9131

Other Names

AIFM1; AIFM1_HUMAN; Apoptosis inducing factor 1, mitochondrial; Apoptosis inducing factor; Apoptosis inducing factor, mitochondrion associated, 1; Apoptosis-inducing factor 1; CMTX4; COWCK; COXPD6; Harlequin; Hq; mAIF; MGC111425; MGC5706; mitochondrial; Neuropathy, axonal motor-sensory, with deafness and mental retardation; neuropathy, axonal, motor-sensory with deafness and mental retardation (Cowchock syndrome); PDCD 8; PDCD8; Programmed cell death 8 (apoptosis inducing factor); Programmed cell death 8; Programmed cell death 8 isoform 1; Programmed cell death 8 isoform 2; Programmed cell death 8 isoform 3; Programmed cell death protein 8; Programmed cell death protein 8 mitochondrial; Programmed cell death protein 8 mitochondrial precursor; Striatal apoptosis inducing factor.

Dilution

WB~~1:1000

ICC~~1:200

Format

Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.03% Proclin300 and 50% glycerol.

Storage

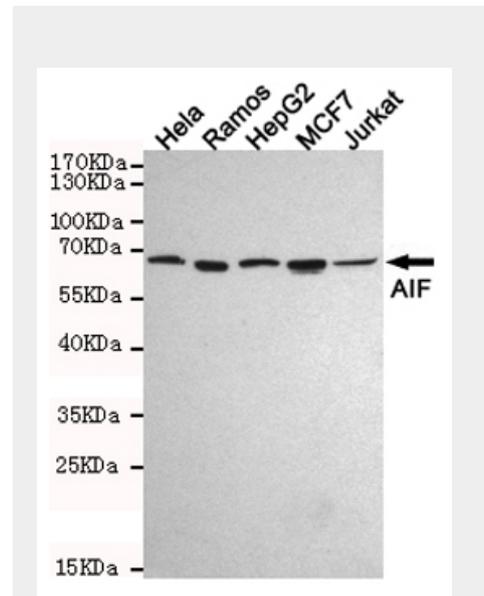
Store at -20 °C.Stable for 12 months from date of receipt

Anti-AIF Antibody - Protein Information

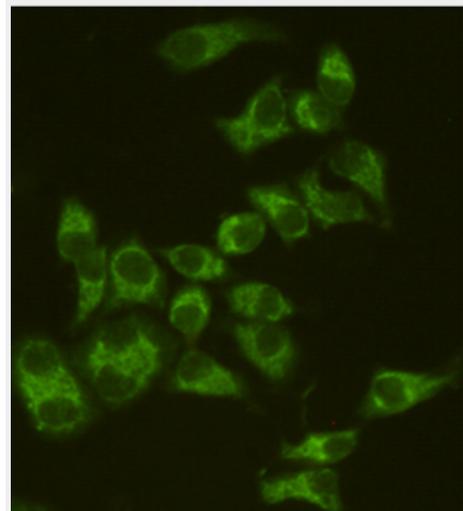
Name AIFM1

Synonyms AIF, PDCD8

Function



Western blot analysis of extracts from HeLa,Ramos,HepG2,MCF7 and Jurkat cell lysates using AIF mouse mAb (1:1000 diluted).Predicted band size:67KDa.Observed band size:67KDa.



Immunocytochemistry staining of HeLa cells fixed with 4% Paraformaldehyde and using anti-AIF mouse mAb (dilution 1:200).

Functions both as NADH oxidoreductase and as regulator of apoptosis. In response to apoptotic stimuli, it is released from the mitochondrion intermembrane space into the cytosol and to the nucleus, where it functions as a proapoptotic factor in a caspase-independent pathway. In contrast, functions as an antiapoptotic factor in normal mitochondria via its NADH oxidoreductase activity. The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i.e. caspase-independent fragmentation of chromosomal DNA. Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates caspase-7 to amplify apoptosis. Plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells. Binds to DNA in a sequence-independent manner.

Cellular Location

Mitochondrion intermembrane space. Mitochondrion inner membrane. Cytoplasm. Nucleus. Cytoplasm, perinuclear region. Note=Proteolytic cleavage during or just after translocation into the mitochondrial intermembrane space (IMS) results in the formation of an inner-membrane-anchored mature form (AIFmit). During apoptosis, further proteolytic processing leads to a mature form, which is confined to the mitochondrial IMS in a soluble form (AIFsol). AIFsol is released to the cytoplasm in response to specific death signals, and translocated to the nucleus, where it induces nuclear apoptosis. Colocalizes with EIF3G in the nucleus and perinuclear region Isoform 5: Cytoplasm

Tissue Location

Detected in muscle and skin fibroblasts (at protein level). Isoform 5 is frequently down-regulated in human cancers.

Anti-AIF Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [□ Western Blot](#)
- [□ Blocking Peptides](#)
- [□ Dot Blot](#)
- [□ Immunohistochemistry](#)
- [□ Immunofluorescence](#)
- [□ Immunoprecipitation](#)
- [□ Flow Cytometry](#)
- [□ Cell Culture](#)

Anti-AIF Antibody - Background

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