

产品名称: AIF (11G15) Rabbit Monoclonal Antibody
产品货号: AMRe06698



产品概述 (Summary)

产品名称 (Production Name)	AIF (11G15) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,FC,IP
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	AIFM1
别名 (Alternative Names)	AIFM1; AIF; PDCD8; COXPD6;
基因 ID (Gene ID)	9131.0
蛋白 ID (SwissProt ID)	O95831.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:200,ICC/IF 1:100-1:200,FC 1:20-1:50,IP 1:20-1:50
蛋白分子量 (Molecular Weight)	67kDa

研究背景 (Background)

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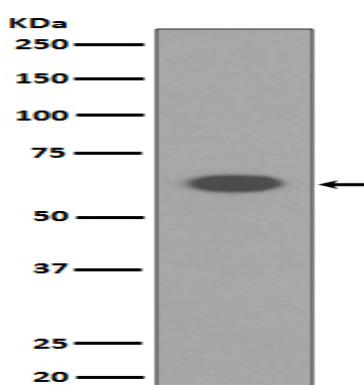


This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it is found in the mitochondrial intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it affects chromosome condensation and fragmentation. Functions both as NADH oxidoreductase and as regulator of apoptosis (PubMed: [20362274](http://www.uniprot.org/citations/20362274), PubMed: [23217327](http://www.uniprot.org/citations/23217327), PubMed: [17094969](http://www.uniprot.org/citations/17094969)). 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. The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i.e. caspase-independent fragmentation of chromosomal DNA (By similarity). Binds to DNA in a sequence-independent manner (PubMed: [27178839](http://www.uniprot.org/citations/27178839)). Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates caspase-7 to amplify apoptosis (PubMed: [17094969](http://www.uniprot.org/citations/17094969)). Plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells (PubMed: [19418225](http://www.uniprot.org/citations/19418225)). In contrast, participates in normal mitochondrial metabolism. Plays an important role in the regulation of respiratory chain biogenesis by interacting with CHCHD4 and controlling CHCHD4 mitochondrial import (PubMed: [26004228](http://www.uniprot.org/citations/26004228)).

研究领域 (Research Area)

Cell Biology

图片 (Image Data)



Western blot analysis of AIF expression in K562 cell lysate.

注意事项 (Note)

For research use only .