

产品名称: AIF-M1 Rabbit Polyclonal Antibody
产品货号: APRab06701



产品概述 (Summary)

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| 产品名称 (Production Name) | AIF-M1 Rabbit Polyclonal Antibody |
| 描述 (Description) | Rabbit polyclonal Antibody |
| 宿主 (Host) | Rabbit |
| 应用 (Application) | WB,IHC,ICC/IF,ELISA |
| 种属反应性 (Reactivity) | Human,Mouse,Rat |

产品性能 (Performance)

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|---------------------|---|
| 偶联物 (Conjugation) | Unconjugated |
| 修饰 (Modification) | Unmodified |
| 同种型 (Isotype) | IgG |
| 克隆 (Clonality) | Polyclonal |
| 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) | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification |

免疫原信息 (Immunogen)

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

产品应用 (Application)

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|--------------------------|--|
| 稀释比 (Dilution Ratio) | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000 |
| 蛋白分子量 (Molecular Weight) | 67kDa |

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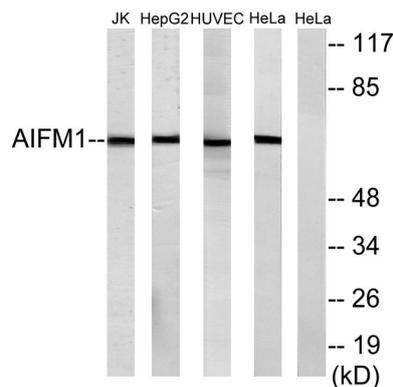
研究背景 (Background)

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 catalytic 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.,

研究领域 (Research Area)

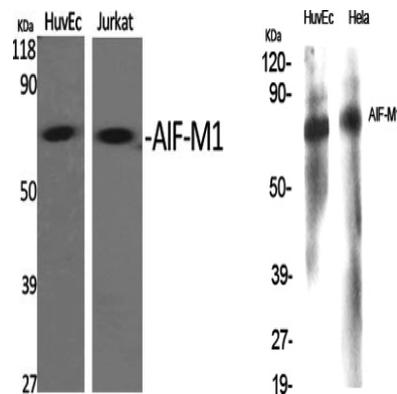
Apoptosis_Inhibition; Apoptosis_Mitochondrial; Apoptosis_Overview;

图片 (Image Data)

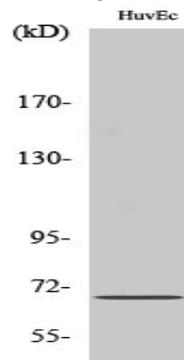


Western blot analysis of lysates from HUVEC cells, HepG2 cells, HeLa cells, and Jurkat cells, using AIFM1 Antibody. The lane on the right is blocked with the synthesized peptide.

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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

注意事项 (Note)

For research use only .