

**RABBIT ANTI-AIF [APOPTOSIS INDUCING FACTOR] (INTERNAL)  
POLYCLONAL ANTIBODY**

**CATALOG NUMBER:** AB16501

**LOT NUMBER:**

**QUANTITY:** 100 µg

**CONCENTRATION:** 1 mg/mL

**SPECIFICITY:** Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the activation of members of the caspase family, caspase activated DNase, and several novel proteins (1). A novel gene, the product of which causes chromatin condensation and DNA fragmentation, was recently identified, cloned, and designated apoptosis inducing factor (AIF) (2). Like the critical molecules, cytochrome c and caspase 9, in apoptosis, AIF localizes in mitochondria. AIF translocates to the nucleus when apoptosis is induced and induces mitochondria to release the apoptogenic proteins, cytochrome c and caspase-9. AIF induces chromatin condensation and DNA fragmentation, which are the hallmarks of apoptosis, of the isolated nucleus and the nucleus in live cells by microinjection. AIF is highly conserved between human and mouse and widely expressed (2)

**IMMUNOGEN:** Rabbit anti-AIF (Internal region) polyclonal antibody was raised against a peptide corresponding to amino acids 517 to 531 of human AIF (2). This sequence is identical to those of mouse and rat AIF (2).

**APPLICATIONS:** Western blot: 0.25 to 1 µg/mL.  
K562 cell lysate can be used as a positive control and a 67 kDa band should be detected.  
*Optimal working dilutions must be determined by end user.*

**FORMAT:** Purified IgG by ion exchange chromatography.

**PRESENTATION:** Liquid in PBS containing 0.02% sodium azide.

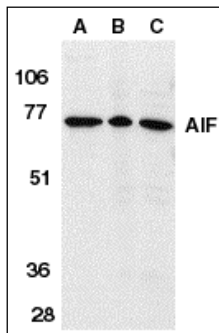
**STORAGE/HANDLING:** Maintain refrigerated at 2-8°C in undiluted aliquots for up to 12 months.

**REFERENCES:**

1. Zamzami, N. et al. (1999). *Nature* **401**: 127-8.
2. Susin, S.A. et al. (1999). *Nature* **397**: 441-6.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

*For research use only; not for use as a diagnostic.*



Western blot analysis of AIF in K562 cell lysate (A), rat heart (B), and mouse heart (C) tissue lysates with anti-AIF (AB16501) at 1  $\mu$ g/ml.

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