**BACKGROUND**

A key event in the apoptotic process is the opening of the mitochondrial permeability transition pore, an event that is regulated by Bcl-2 family proteins, resulting in the release of several proteins from the mitochondrial intermembrane space. Several of these proteins participate in apoptosis, including cytochrome c, procaspases-2, -3 and -9, and AIF (apoptosis-inducing factor). AIF was shown to cause DNA fragmentation and chromatin condensation, and to induce the release of cytochrome c and caspase-9 from mitochondria. Bcl-2 overexpression was shown to prevent the release of AIF from mitochondria, but not to block its apoptogenic activity.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: AIFM1 (human) mapping to Xq26.1; Aifm1 (mouse) mapping to X A4.

**SOURCE**

AIF (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of AIF of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as agarose conjugate for immunoprecipitation, sc-7384 AC, 500 µg/0.25 ml agarose in 1 ml.

**APPLICATIONS**

AIF (H-300) is recommended for detection of AIF of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein [1 ml of cell lysate]), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

AIF (H-300) is also recommended for detection of AIF in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for AIF siRNA (h): sc-29193, AIF siRNA (m): sc-29194, AIF shRNA Plasmid (h): sc-29193-SH, AIF shRNA Plasmid (m): sc-29194-SH, AIF shRNA (h) Lentiviral Particles: sc-29193-V and AIF shRNA (m) Lentiviral Particles: sc-29194-V.

Molecular Weight of AIF: 57 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, Hep G2 cell lysate: sc-2227 or AML-193 whole cell lysate: sc-364182.

**STORAGE**

Store at 4° C, **DO NOT FREEZE***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

AIF (H-300): sc-5586. Western blot analysis of AIF expression in AML-193 (A), CCRF-CEM (B), Hep G2 (C), and MOLT-4 (D) whole cell lysates.

**SELECT PRODUCT CITATIONS**