

Polyclonal Antibody to AIF (CT)

Alternate names:	AIFM1, PDCD8, Programmed cell death protein 8
Catalog No.:	SP6220P
Quantity:	50 µg
Concentration:	0.5 mg/ml
Host:	Rabbit
Immunogen:	Rabbit anti-AIF (CT) polyclonal antibody was raised against a peptide (KDGEQHEDLNEVAK) corresponding to amino acids 593 to 606 of human AIF (2). This sequence is identical to those of mouse and rat AIF (2). Control peptide available as SP6220CP.
Applications:	Western blot. K562 cell lysate can be used as positive control and a 67 kDa band should be detected. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises apoptosis inducing factor (AIF). Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the activation of members of 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).
Storage:	Store the antibody at 4-8°C for one month or at -20°C for longer. This product should be stored undiluted. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Zamzami N, Kroemer G. Condensed matter in cell death. Nature 1999;401:127-8 2. Susin SA, Lorenzo HK, Zamzami N, et al. Molecular characterization of mitochondrial apoptosis-inducing factor. Nature 1999;397:441-6 SP6220P/1105