

## Product datasheet for **SP1293P**

### **AIF (AIFM1) (517-531) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 0.25-1 µg/ml. Immunohistochemistry on Paraffin Sections: 10 µg/ml; this product requires antigen retrieval using heat treatment prior to staining of paraffin sections; Sodium citrate buffer pH6.0 is recommended for this purpose.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide corresponding to amino acids 517 - 531 of human AIF
Specificity:	This antibody recognises Apoptosis Inducing Factor (AIF). The antibody reacts with an internal region of AIF.
Formulation:	PBS containing 0.02% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Ion Exchange Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	apoptosis inducing factor, mitochondria associated 1
Database Link:	<a href="#">Entrez Gene 9131 Human O95831</a>



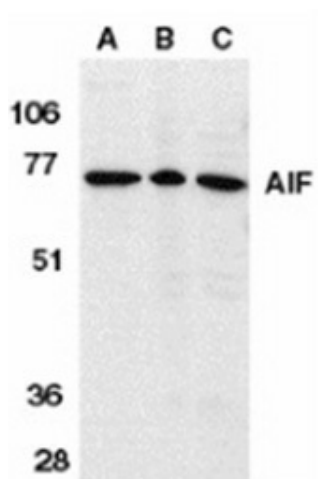
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**Background:**

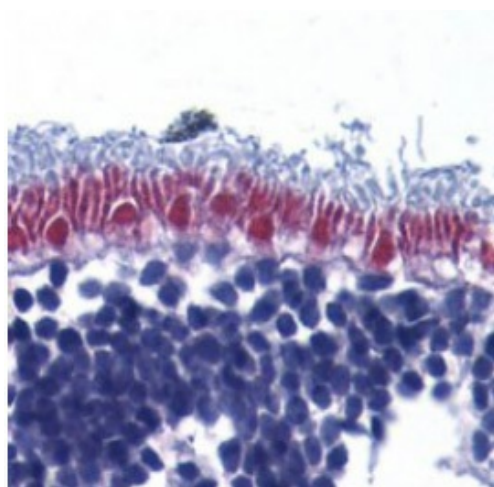
Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the activation of members of caspase family, caspase activated DNase, and several novel proteins. A novel gene, the product of which causes chromatin condensation and DNA fragmentation, was recently identified, cloned, and designated apoptosis inducing factor (AIF). 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 large scale DNA fragmentation, which are the hallmarks of apoptosis, of the isolated nucleus and the nucleus in live cells by microinjection and apoptosis stimuli. AIF is highly conserved between human and mouse and widely expressed.

**Synonyms:**

PDCD8

**Product images:**


Western blot analysis of whole cell lysates from K562 (A), rat heart (B) and mouse heart (C) probed with Rabbit anti Human AIF



AIF - staining of human retina with anti-AIF (IN) at 10 ug/ml. Formalin fixed paraffin processed tissue.